DEPOSITION AND INDEX

OF

ANDREW LEE, M.D.

MARTIN v PFIZER

MDL Case No. 1724 Case No. 06-cv-1064 (PAM)

ORIGINAL

Tuesday, January 13, 2009

Krista K. Irish, CSR, RPR, RMR IRISH REPORTING, INC. 305 - 10th Avenue Hiawatha, IA 52233 319-393-5050

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AMMOND

	Page 1
IN THE UNITED STATE DISTRICT OF	TES DISTRICT COURT MINNESOTA
In Re:	
Viagra Products Liability) Litigation) MDL Case No. 1724))
Richard Martin,	
Plaintiff,	
vs.	Case No. 06-cv-1064 (PAM)
Pfizer, Inc.,	
Defendant.)	
taken on Tuesday, Janu at 1:05 p.m., at Hotel Street, Iowa City, Iow	TTION OF ANDREW LEE, M.D., Dary 13, 2008, commencing L Vetro, 201 South Linn wa, before Krista K. Irish, Peporter of the State of

Krista K. Irish, CSR, RPR, RMR IRISH REPORTING, INC. 305 - 10th Avenue Hiawatha, IA 52233 (319) 393-5050

Page 2	Page 4
1 APPEARANCES: 2 J. Jason Richards and Neil D. Overholtz,	1 EXHIBITS (Cont'd.) 2 NUMBER EXHIBIT M I
Appearing Telephonically, of Aylstock, Witkin,	3 13 The Sally Letson Foundation 93 93
3 Kreis & Overholtz, P.L.L.C., Attorneys at Law, 803 North Palafox Street, Pensacola, Florida	and the University of 4 Ottawa, Department of
4 32501, Attorneys for the Plaintiff.	Ophthalmology, 2006
5 Daniel E. Becnel, Junior, of the Becnel Law	5 Symposium, Neuroophthalmology Update, DVD set
Firm, L.L.C., Attorneys at Law, 6 P. O. Drawer H, 106 West 7th Street, Reserve,	6
Louisiana 70084, Attorney Appearing	14 The Sally Letson Foundation 93 93 7 and the University of
7 Telephonically for the Plaintiff. 8 Lori B. Leskin and Mark D. Spatz, of	Ottawa, Department of
Kaye Scholer, LLP., Attorneys at Law,	8 Ophthalmology, 2006 Symposium, Neuroophthalmology
9 425 Park Avenue, New York, New York 10022-3598, Attorneys for the Defendant.	9 Update, Paper Copy
10	10 15 Leskin E-mail of 1-6-09 to 96 96
John W. Borg, District Court Judge, Retired,	Overholtz, Becnel, Hopper
11 6612 Limerick Drive, Edina, Minnesota 55439, Special Master.	16 The Sally Letson Symposium: 99 99
12	12 Neuroophthalmology Update, Meeting Report, 9/14-16/06
ALSO PRESENT: Mark DeMeulenaere, videographer 13	13
14	17 Ferrera Medical Records 124 124
15	18 Nichols Medical Records 127 127
17 INDEX	15 19 McEllistrem Medical Records 130 130
18 WITNESS EXAMINATION PAGE 19 Andrew Lee, M.D. D(By Ms. Leskin) 7	16
C(By Mr. Richards) 146	17 18
20 RD(By Ms. Leskin) 170 RC(By Mr. Richards) 177	19
21 FRD(By Ms. Leskin) 180	20 21
22	22
23 24	23 24
25	25
Page 3	Page 5
1 EXHIBITS	1 PROCEEDINGS
2 NUMBER EXHIBIT M I 3 1 Curriculum Vitae, 6 7	2 THE VIDEOGRAPHER: My name is
Revised 11-17-08	3 Mark DeMeulenaere of Veritext. The date today is
2 Subpoena in a Civil Case, 28 28	4 January 13th, 2009, and the time is approximately
5 12-24-08 6 3 Hansen Letter of 10-24-08 34 34	5 1:05 p.m. The deposition is being held in the office
to Lee	6 of Hotel Vetro boardroom located at Linn Street,
4 Lee Letter of 10-29-08 34 34	7 Iowa City, Iowa. The caption of this case is
8 to Hansen; Receipt Attached 9 5 Lee Letter of 11-12-08 34 34	8 Richard Martin, plaintiff, versus Pfizer, Inc.,
to Overholtz	9 defendant, in the Viagra products liability
6 Expert Report of Andrew Go 44 44 11 Lee, M.D., 12-1-08	10 litigation. The name of the witness is Dr. Andrew
12 7 Lee Deposition List, 44 44	11 Lee. At this time the attorneys will identify
1996 Through 2008	12 themselves and the parties they represent, after
8 Lee Letter of 10-29-08 48 48 14 to Hansen	13 which our court reporter, Krista Irish of Veritext,
15 9 Neuroophthalmology Article, 63 63	14 will swear in the witness, and we can proceed.
Prognosis of Neurological 16 Disorders, Second Edition,	15 MR. SPATZ: Mark Spatz for Pfizer.
Chapter 7	16 MS. LESKIN: Lori Leskin, Pfizer.
10 The Fellow Eye in NAION: 64 65	17 MR. RICHARDS: Jason Richards for
18 Report From the Ischemic Optic Neuropathy Decompression	18 Mr. Martin.
19 Trial Follow-up Study Article	19 MR. BECNEL: Daniel Becnel for the
20	20 plaintiffs' committee.
21 and Nonarteritic Anterior	21 MR. OVERHOLTZ: Neil Overholtz for the
Ischemic Optic Neuropathy 22 Article	22 plaintiff.
23 12 Alert for Healthcare 89 89	JUDGE BORG: John Borg, special master.
Professionals Sildenafil 24 (Marketed as Viagra)	24 Ms. Court Reporter, would you swear the
Article	25 witness, please.
25	withos, proso.

2 (Pages 2 to 5)

	Page 6	5	Page 8
1	(The witness was duly sworn at this time.)	1	· · · · · · · · · · · · · · · · · · ·
2	JUDGE BORG: Dr. Lee, have you been deposed	2	Q. Okay. Let's take those one at a time.
3	before?	3	You said you presented at Columbia University
4	1112 WITHESS. 16S.	4	Grand Rounds?
5	obde boled. Okay. If a question is but to	5	
6	you, and you don't understand it, you can go ahead	6	Q. When was that?
7	and say that, and whoever's examining will do their	7	A. Just this past week.
8	of the make it clearer for you. If there is someone	8	Q. And was there a particular topic you
9	who says objection, please don't answer the question	9	presented on?
10	and I you whether of not you can, and if you	10	A. Yes, neuroimaging studies and emergency
11	need any breaks, let us know. All right.	11	cases in neuroophthalmology.
12	THE WITHESS. Thank you.	12	Q. Were there any written materials or
13	JUDGE BORG: Ms. Leskin, you may proceed.	13	presentation or PowerPoint slides or articles that
14	MS. LESKIN: Thank you, judge.	14	went along with that presentation?
15	(Lee Exhibit 1 was marked for	15	A. No.
16	identification by Attorney Leskin.)	16	Q. You also said you presented at
17		17	Current Concepts in Atlantic City, New Jersey?
18		18	A. Yes.
1		19	Q. And when was that presentation?
20		20	A. On Saturday.
22		21	Q. And what was the topic of your presentation
23		22	at that meeting?
24	·	23	A. Infectious optic disk edema, and ten easy
25		24	mistakes to avoid in neuroophthalmology.
F-		25	Q. And were there any written materials that
	Page 7		Page 9
1	ANDREW LEE, M.D., was called as a witness	1	went along with that presentation?
2	and, being first duly sworn, testified as follows:	2	A. No.
3	DIRECT EXAMINATION	3	Q. Was there a PowerPoint slide you used
4 5	BY MS. LESKIN:	4	PowerPoint slides you used?
6	Q. Dr. Lee, I'm going to hand you what we've	5	A. Yes.
7	marked as Lee Exhibit 1 (indicating), and this is	6	Q. Okay. And do you have copies of those
8	what we received from plaintiff's counsel	7	presentations?
و ا	representing to be your current curriculum vitae.	8	A. Not on me.
10	Is this, in fact, a true and correct copy of your current curriculum vitae?	9	Q. Okay. Did either the presentation at
11	A. Yes.	10	Grand Rounds or the presentation at Current Concepts
12	Q. If you'll look at the upper left-hand	11	involve Viagra?
13	corner, it says last revision was November 17th,	12	A. No.
14	2008?	13	Q. Did it involve arteritic ischemic optic
15	A. Yes.	14	neuropathy?
16	Q. Have you made any changes to your CV since	15	A. Yes.
17	November 17th, 2008?	16	Q. And did it involve causes of nonarteritic
18	A. Yes.	17	ischemic optic neuropathy?
19	Q. Okay. What else has been added to your CV	18	A. No.
20	since that time?	19 20	Q. You also said you've published additional
			papers since November 17th, 2008. What papers have you published since then?
21	A. I presented at two additional meetings 1		
21 22	A. I presented at two additional meetings and —	21	
	and	22	A. Some chapters and books and some monographs
22	and — Q. And what meetings?	22 23	A. Some chapters and books and some monographs were submitted, but nothing related to ischemic optic
22 23	and	22	A. Some chapters and books and some monographs

3 (Pages 6 to 9)

DEPOSITION	OF ANDREW 2227		Page 12
	Page 10		
	General neuroophthalmology topics.	1	ophthalmologist?
1 A	And which textbooks or books, I should	2	A. Yes. Q. How often do you - Strike that. How many
_	And which terms	3	Q. How orien do you — Strike that Trovally patients do you see in a given year would you
	One is an online guide called the	4	
4 A. 5 Hype	erguide. The other is a textbook that we're	5	estimate?
	ng on geriatric onhthalmology.	6	A. Three thousand. Q. And those are all through the
	And ups the subject of nonartentic	7	Q. And those are an unough the
7 Q.	mic optic neuropathy discussed in either of	8	University of Iowa?
8 ische	chapters?	9	A. Yes. Q. And how many of those approximately
1	Voc	10	three thousand patients have nonarteritic anterior
10 A	. And is Viagra mentioned in either of those	11	three thousand patients have nonactive
	iters?	12	ischemic optic neuropathy? A. Maybe two or three hundred.
1	Not Viagra, no.	13	Q. And of those two or three hundred patients
13 A	2. Are any of the PDE-5 inhibitors mentioned	14	with NAION, how many of them have you personally
14 (ther of those chapters?	15	diagnosed with NAION?
1	A No.	16	A. We either make the primary diagnosis or
117 (Are causes of nonarteritic ischemic optic	17	provide a second opinion confirming that diagnosis.
1.0	repathy included in those chapters:	18	Q. And how many new cases of NAION do you
1	A No It's just very general information.	19	estimate you see in a given year?
100 (And I keen saving nonarteritic afficial	20	A. Probably fifty to a hundred.
	in antic neuronathy. It I appreviate that as	21	Q. Now, you've been at Iowa since about 2000,
21 150	A ION or NAION, will you understand what I'm	22	correct? Do I remember Did I read that correctly?
22 NA 23 refe	erring to?		S 4
1 .	A Was	24	A. Yes. Q. And before that you were at Baylor, right?
25	Q. Okay. Good, because I think that will make	25	
23	Page 1	1	Page 13
1	_	1	A. Yes.
1 all	of us much happier, including the court reporter.	2	And has the nature of your practice changed
1 0 10	see the CV that we've marked as Exhibit 1 as	3	towa compared to what you were
3 m	odified You can hold on to that. Does the CV		
4 th	at we've identified as Exhibit 1 with the addendum	" 9	a A No
5 W	e've just identified accurately reflect your	i	Q. And has the number of patients you've seen
6 ed	lucation and training?	1	7 changed?
7	A. Yes.	1	8 A. A little less.
8	Q. Does it accurately reflect your employment	1	9 Q. Less patients here?
9 hi	istory?	1	A Vos
10	A. Yes.	1 -	1 O. And would the number of patients with NAION
11	Q. And does it accurately reflect your medical	- 1	that you've seen changed?
12 t	raining?	1	3 A. No.
13	A. Yes.	- 1	Q. Do you teach?
14	Q. And your medical appointments?	ı	15 A. Yes.
15	A. Yes.	- 1	O What courses do you teach?
16	Q. Does it accurately reflect your		- We teach our residents and the medical
17	publications?	1:	18 students. They rotate through, so there's not really
18	A. Yes.	. 1	and then I do national courses like I just
19	Q. Do you currently practice in terms of	1	on applying to you at Columbia and Atlantic City to
20	seeing patients?		21 practicing physicians and residents in other parts of
21	A. Yes.	1	on the country
22	Q. Okay. And you practice as a	1	Q. Do you have a course that you teach within
23	neuroophthalmologist, is that correct?	1	24 the medical school?
24	A. Yes.	1	25 A. No.
25	Q. And you're board certified as an		
March 640			1

4 (Pages 10 to 13)

	Page 14		Page 16
1	Q. Do you conduct research?	1	A. We don't We're not to that level yet of
.2	A. Yes.	2	signing.
3	Q. What types of research projects do you have	3	Q. Okay. Did you personally attend the
4	currently ongoing?	4	presentation by Pfizer?
5	A. A number of clinical research projects.	5	A. Yes.
6	A clinical research project is one that involves the	6	Q. Okay. And did you receive a copy of the
7	use of patients and performing tests on them and then	7	protocol?
8	making some analysis of the data, so we have a number	8	A. We did look at the - what was - the
9	of projects. My area of interest is optic nerve, so	9	preliminary. I don't know if this would be the final
10	looking at optic nerve diseases.	10	or not —
11	Q. Do you currently have any studies going on	11	Q. Okay.
12	regarding NAION?	12	A because we did not sign up for the
1.3	A. We've been asked to participate but have	13	study yet, for me, because I'm moving to Houston,
14	not recruited for yet two studies to look at the	14	Texas.
15	possible cause and effect relationship of these	15	Q. Oh, you're moving to Houston?
16	agents with ischemic optic neuropathy.	16	A. (Witness nods head.)
17	Q. Okay. Now, you said you've been recruited.	17	Q. When are you moving to Houston?
18	Have you signed up to actually participate in those	18	A. April 1st.
19	studies?	19	Q. Okay. And what institution are you going
20	A. We've gone to the preliminary meetings	20	to be affiliated with?
21	where the study design is unfolded and the	21	A. I'm going to be the chairman of
22	recruitment is explained, et cetera, but we haven't	22	ophthalmology at the Methodist Hospital in the
23	actually recruited any patients yet. It's not to	23	Texas Medical Center, Houston, Texas.
24	that level yet. The other study is just in the	24	Q. Do you know whether Methodist Hospital is
25	question phase, would you be willing to participate,	25	participating in this study?
	Page 15		Page 17
1	and we send in survey data, how many patients have we	1	A. Probably will not be participating, because
2	seen with the condition, how many do you see in a	2	it's too late for us to catch up to the rest of the
3	year, similar to what you've already asked me.	3	people.
4	Q. Okay. The first study that you just	4	Q. Do you know whether there is anyone at the
5	mentioned, who's sponsoring that study?	5	University of Iowa who will be participating in this
6	A. One is Pfizer, and the other, I think, is	6	study?
7	Bayer, but I - I can't remember exactly, because	7	A. I don't know that, because my colleagues -
8	that other one is just in the asking stage, and I	8	After we went to the preliminary meeting, they did
9	didn't look at - there were - no protocol was	9	not tell me whether they were going to participate or
10	distributed with it, so I'm not sure if they're -	10	not.
11	it's just a public relations firm that is doing the	11	Q. Okay. So as of today, you don't know one
12	initial part, because no company logo was attached	12	way or the other whether the University of Iowa will,
13	to this; it was just a outsourced survey form.	13	in fact, participate in the Pfizer study, is that
		1	
14	Q. And was there - Let's talk about the	14	fair?
15	Q. And was there – Let's talk about the study sponsored by Pfizer first. What is the	14 15	fair? A. I think it's unlikely that they will.
15 16	Q. And was there – Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating?	ĺ	
15 16 17	 Q. And was there – Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship 	15	A. I think it's unlikely that they will.
15 16 17 18	Q. And was there — Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship that can be excluded from the use of this agent in	15 16 17 18	 A. I think it's unlikely that they will. Q. Okay. And do you know why that's unlikely? A. I think there have been questions about the study design that have made a lot of
15 16 17 18 19	Q. And was there — Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship that can be excluded from the use of this agent in relationship to nonarteritic anterior ischemic optic	15 16 17	A. I think it's unlikely that they will.Q. Okay. And do you know why that's unlikely?A. I think there have been questions about
15 16 17 18 19 20	Q. And was there — Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship that can be excluded from the use of this agent in relationship to nonarteritic anterior ischemic optic neuropathy.	15 16 17 18	 A. I think it's unlikely that they will. Q. Okay. And do you know why that's unlikely? A. I think there have been questions about the study design that have made a lot of
15 16 17 18 19 20 21	Q. And was there — Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship that can be excluded from the use of this agent in relationship to nonarteritic anterior ischemic optic neuropathy. Q. Now, when you say "this agent," you're	15 16 17 18 19	A. I think it's unlikely that they will. Q. Okay. And do you know why that's unlikely? A. I think there have been questions about the study design that have made a lot of neuroophthalmologists changed their minds about
15 16 17 18 19 20 21	Q. And was there — Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship that can be excluded from the use of this agent in relationship to nonarteritic anterior ischemic optic neuropathy. Q. Now, when you say "this agent," you're referring to PDE-5 inhibitors?	15 16 17 18 19 20 21 22	A. I think it's unlikely that they will. Q. Okay. And do you know why that's unlikely? A. I think there have been questions about the study design that have made a lot of neuroophthalmologists changed their minds about participating.
15 16 17 18 19 20 21 22	Q. And was there — Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship that can be excluded from the use of this agent in relationship to nonarteritic anterior ischemic optic neuropathy. Q. Now, when you say "this agent," you're referring to PDE-5 inhibitors? A. Yes.	15 16 17 18 19 20 21	A. I think it's unlikely that they will. Q. Okay. And do you know why that's unlikely? A. I think there have been questions about the study design that have made a lot of neuroophthalmologists changed their minds about participating. Q. And are these questions that you raised?
15 16 17 18 19 20 21	Q. And was there — Let's talk about the study sponsored by Pfizer first. What is the hypothesis that that study is investigating? A. If there's a cause and effect relationship that can be excluded from the use of this agent in relationship to nonarteritic anterior ischemic optic neuropathy. Q. Now, when you say "this agent," you're referring to PDE-5 inhibitors?	15 16 17 18 19 20 21 22	A. I think it's unlikely that they will. Q. Okay. And do you know why that's unlikely? A. I think there have been questions about the study design that have made a lot of neuroophthalmologists changed their minds about participating. Q. And are these questions that you raised? A. These were raised at the — both at the

5 (Pages 14 to 17)

	Page 18		Page 20
1	A. Yes.	1	other?
2	Q. But sitting here today, you don't know one	2	A. No.
3	way or the other whether they will, in fact, sign up,	3	Q. Other than those two studies, are you
4	is that fair?	4	aware of any other studies regarding NAION that are
5	A. I don't know one way or the other, but I	5	currently undergoing at the University of Iowa?
6	doubt it.	6	A. Not related to —
7	Q. Okay. Now, you also made reference to the	7	Q. Not related to the Pfizer or Bayer study we
8	the protocol design circulated by Bayer -	8	just discussed.
9	A. I think that's the -	9	A. Yeah, there are many.
10	Q or the study invitation?	10	Q. Okay. Are there any studies going on that
11	A. Yeah, there's a study outsource company	11	relate to the causation of NAION?
12	that - They did not provide the protocol.	12	A. No.
13	Q. Okay. But your belief is that that is	13	Q. Are there any studies going on in animals
14	being sponsored by Bayer?	14	regarding NAION?
15	A. I think so.	15	A. Yes.
16	Q. Okay. And is that - What is the	16	Q. Okay. And do those studies relate to the
17	hypothesis of that study?	17	causation of NAION?
18	A. Same study, but different agents, I think.	18	A. Yes, some.
19	Q. Okay. Have you had the opportunity to	19	Q. Okay. And are you participating in those
20	review a preliminary protocol from the Bayer study?	20	studies?
21	A. No.	21	A. No.
22	Q. Do you know whether - how the design of	22	Q. Okay. Have you had input into the design
23	the Bayer study compares to the Pfizer study?	23	of those studies?
24	A. No.	24	A. No.
25	Q. Do you know whether there have been any	25	Q. And the study the other studies
	Page 19	·	Page 21
1	questions raised regarding the design of the Bayer	1	regarding NAION that you've discussed, do you have
2	study?	2	are you personally involved in any of those studies?
3	A. No, because we didn't get to see the	3	A. Yes.
4	protocol yet, so	4	Q. Okay. What studies are you personally
5	Q. Do you know whether the	5	involved in regarding NAION currently?
6	Methodist Hospital will be participating in the	6	A. We look at photographs and also
7	Bayer study?	7	measurements of nerve fiber layer with a machine
8	A. It would be unlikely that we would	8	called optical coherence tomography, which is OCT.
9	participate.	9	Those are the predominant studies that are ongoing
10	Q. And why is that likely?	10	with this entity, but they're not causality studies.
11	A. It's unlikely, because we -	11	Q. And what is the purpose of those studies?
12	Q. Oh, unlikely or likely?	12	A. To look at predictive value of certain
13	A. Unlikely.	13	parameters that we see in the patients to see if we
14	Q. Oh, Okay.	14	can predict who's going to lose vision or keep their
15	A because we are starting a new	15	vision, how much vision they're going to lose, these
16	department, and I would just have started there	16	types of things.
17	April 1st. By the time we caught up there would	17	Q. Have you done any studies of blood flow at
18	be - It's unlikely that we would have enough time	18	the University of Iowa?
19	to catch up.	19	MR. RICHARDS: Objection, form.
20	Q. And do you know whether any of your	20	JUDGE BORG: Overruled.
21	colleagues at the University of Iowa will be	21	A. I haven't done any blood flow studies
22	participating in the Bayer study?	22	myself, but there have been blood flow studies done.
122	A. I think it's unlikely that they will	23	Q. At Iowa?
23			
24 25	participate. Q. Okay. But you don't know one way or the	24 25	A. Yes. Q. And have you done any studies that look at

6 (Pages 18 to 21)

	Page 22		Page 24
1	the different technologies available to measure	1	Q. Okay. So if a patient comes in who you
2	ocular blood flow?	2	find has hypertension, you would refer them to
3	A. Have I done studies?	3	someone else to determine the appropriate treatment
4	Q. Yes.	4	for that patient, correct?
5	A. No.	5	A. Yes.
6	Q. Have you participated in any studies of	6	Q. And you don't advise other doctors how to
7	that?	7	treat patients with hypertension, is that right?
8	A. No.	8	A. We don't advise them how to treat
وا	Q. Have you done any epidemiological studies	9	hypertension, but we might advise them on ocular
10	regarding the prevalence of NAION?	10	side effects of treatments if we see them in their
11	A. No.	11	patient.
12	Q. Have you done any epidemiological studies	12	Q. You're not an expert in urology, right?
13	to determine whether various agents can cause NAION?	13	A. I'm an expert in neuroophthalmology. Some
14	I'm asking you personally.	14	of that has overlap with neurology, but I am not a
15	A. No.	15	neurologist.
16	Q. Okay. Have you personally been involved	16	Q. Let me You may not have heard my
17	in any studies of Viagra?	17	question, or I may have not spoken clearly. You're
18	A. No.	18	not an expert in urology?
19	Q. Have you personally been involved in any	19	A. Oh, urology.
20	studies of any of the PDE-5 inhibitors?	20	Q. Urology.
21	A. No.	21	A. I'm definitely not an expert in urology.
22	Q. Now, you told me that you are board	22	Q. Okay. And you don't treat creetile
23	certified in ophthalmology, right?	23	dysfunction in your patients, correct?
24	A. Yes.	24	A. I do not treat erectile dysfunction.
25	Q. And you're a licensed to practice medicine	25	Q. And you don't diagnose patients with
	Page 23		Page 25
1	here in Iowa, I assume, is that right?		
2	A. Yes.	1 2	erectile dysfunction? A. We might make the diagnosis if they tell
3	Q. Where else are you licensed to practice	3	us a history compatible, but we would refer that
4	medicine currently?	4	patient.
5	A. Texas.	5	Q. To a urologist or an internist?
6	Q. Anywhere else?	6	A. Yes, whoever they have chosen to treat
7	A. No.	7	with.
8	Q. Now, you're not an expert in hypertension,	8	Q. Someone outside the ophthalmology
9	is that fair to say?	9	department?
10	A. I am not.	10	A. Yes.
11	Q. And you don't treat hypertension in your	11	Q. Okay. And you've never prescribed a
12	patients, right?	12	treatment for erectile dysfunction to a patient,
13	A. No.	13	have you?
14	Q. And you don't diagnose hypertension in your	14	A. No.
15	patients?	15	Q. And you've not discussed the options for
16	A. We sometimes diagnose hypertension.	16	treatment for erectile dysfunction of patients,
17	Q. Do you personally diagnose hypertension?	17	have you?
18	A. Yes.	18	A. If they have ischemic optic neuropathy,
19	Q. Okay. And how do you go about diagnosing	19	we might give our advice.
20	hypertension in your patients?	20	Q. Okay. You're not an expert in
21	A. A patient might have an eye finding that	21	epidemiology, are you?
22	is related to hypertension, but they don't know it,	22	A. No.
23	we check their blood pressure, can make the	23	Q. And you're not an endocrinologist, right?
24	diagnosis, call the internist, they confirm the	24	A. No.
25	diagnosis, they treat.	25	Q. And you don't diagnose diabetes, correct?

7 (Pages 22 to 25)

٠.	Page 26		Page 28
1	A. We sometimes diagnose diabetes, but we	1	Q. Does that affect any of the conclusions you
. 2	would treat	2	draw about your patient?
3	Q. Okay. Under what circumstances would you	3	A. No.
4	diagnose diabetes?	4	Q. Does it effect any diagnosis you might
5	A. We might see diabetes in the eye, diabetic	5	make?
6	retinopathy. We would draw the red blood studies,	6	A. No.
7	blood sugar or hemoglobin A1c, make the diagnosis,	7	Q. Have you ever received any speaking fees
8	refer for confirmation and treatment.	8	from any pharmaceutical company?
9	Q. Okay. But you wouldn't treat the patients	9	A. No.
10	for diabetes?	10	(Lee Exhibit 2 was marked for
11	A. We don't treat the diabetes.	11	identification by Attorney Leskin.)
12	Q. Now, have you ever worked for any	12	Q. I've handed you what we've marked as
13	pharmaceutical company?	13	Lee Exhibit 2 (indicating), and I know you have a
14	A. No.	14	I saw you have a copy that you brought with you,
15	Q. Have you ever worked under contract for a	15	which is a copy of the subpoena that was served on
16	pharmaceutical company?	16	Mr. Overholtz on your behalf in this litigation.
17	A. No.	17	When did you first receive a copy of the subpoena?
18	Q. Have you ever received grants from	18	A. I think just right before today's
19	pharmaceutical companies?	19	scheduled, maybe two days before.
20	A. No.	20	Q. This week?
21	MR. RICHARDS: Judge Borg, if I could	21	A. Yes.
22	just clarify. She asked The last question have	22	Q. And how did you receive that?
23	you ever received grants from pharmaceutical	23	A. I believe it came by fax, but I'm not sure.
24	companies, is she referring to him personally or the	24	It just appeared in my outbox. My secretary opens
25	University of Iowa?	25	the mail, so I'm not sure if it was a fax or mail.
	. Page 27		Page 29
1	Q. Is there a distinction between that in your	1	Q. Okay. And if you look at the third page of
2	mind?	2	the document we've marked as Exhibit 2, you'll see
3	A. Yes, the University receives many study	3	there's something called Attachment A.
4	grants	4	A. (Witness complies.) Yes.
5	Q. Okay.	5	Q. Were you aware that the subpoena asked you
6	A. — and we might participate.	6	to bring certain documents with you?
7	Q. Okay. Have you applied for grants from any	7	A. I looked at it. I tried to bring
8	pharmaceutical company, you personally on behalf of	8	everything on here.
9	the University of Iowa?	9	Q. Okay. Tell me what you did to comply with
10	A. I've been an investigator where I was not	10	the request in the subpoena.
11	the principal investigator of drug studies to look	11	A. The things I had I brought with me.
12	at the ocular portions, but I have not been the	12	Q. Okay. And you've already identified for
13	principal recipient of the grant. We just get paid	13	us, I know, a copy of your prior litigation list that
14	to do the exams and send them back.	14	we had received
15	Q. Okay. And that But that work is funded	15	A. Yes.
16	by a grant from a pharmaceutical company?	16	Q a copy of the subpoena
17	A. Several of those are pharmaceutical	17	A. Yes.
18	supported.	18	Q a copy of your expert report in this
19	Q. And is the fact that some of your work is	19	litigation —
20	funded by a grant from a pharmaceutical company,	20	A. Yes.
21	does that fact affect how you go about doing your	21	Q a copy of an article you authored with
22	examination?	22	Ms. Newman with Dr. Newman
23	A. No.	23	A. Yes.
24	Q. Does that affect how you do your work?	24	Q correct? And now you have Is there
25	A. No.	25	anything else from that pile in front (indicating) of

8 (Pages 26 to 29)

	Page 30		Page 32
1	you that I missed?	1	that indicate to you you have not yet been paid?
2	A. No.	2	A. Or it's in the University mail system or on
3	Q. I also note that you brought three letters	3	my secretary's desk somewhere.
4	from Zimmerman Reed, correct?	4	Q. The address that you've requested the check
5	A. Yes. Some were me to them.	5	be sent to is 205 Black Springs Circle, Iowa City,
6	Q. I'm sorry?	6	Iowa. Is that your work address?
7	A. Some were -	7	A. No.
8	Q. Oh, you're right. You're right. One	8	Q. That's your home address?
9	letter from Zimmerman Reed to you from Ms. Hansen	9	A. Yes.
10	dated October 24th, 2008, enclosing records of	10	Q. So did you, in fact, receive a check?
11	Richard Martin, correct?	11	A. I don't know. I have to go check.
12	A. Yes.	12	Q. Okay. Have you sent any additional
13	Q. And a check for \$1100 as a retainer,	13	invoices to Mr. Overholtz or anyone at Zimmerman Reed
14	correct?	14	since November 12th, 2008?
15	A. Yes.	15	A. I don't think so.
16	Q. And then you brought with you a letter	16	Q. You also brought with you And we'll come
17	dated October 29th, 2008, from you to Ms. Hansen at	17	back to these letters (indicating). You also brought
18	Zimmerman Reed	18	with you it looks like two green hanging folders.
19	A. Yes.	19	A. Yes.
20	Q regarding the Martin versus Pfizer case.	20	Q. Can you identify what those are?
21	Reviewing the records, this required three hours to	21	A. The records they sent and the depositions.
22	review the record and formulate an opinion and	22	Q. Okay. Now, the records they sent were for
23	includes the time to discuss the opinion with your	23	Mr. Martin?
24	office. This consumed the two-hour retainer, and I	24	A. Yes.
25	would be most obliged if you could send a fee check	25	Q. Okay. And the depositions were of whom?
	Page 31		Page 33
1	in the amount of \$550, and then you have a copy of	1	A. Mr. and Mrs. Martin.
2	the receipt, which I would assume indicates you,	2	Q. Any other deposition transcripts besides
3	in fact, received that additional \$550, right?	3	Mr. and Mrs. Martin's?
4	A. Yes.	4	A. I don't think so.
5	Q. Okay. And the third letter is dated	5	Q. It looks like there are three clipped
6	November 12th, 2008, again from you to Neil Overholtz	6	things there.
7	at Zimmerman Reed, indicating that you had reviewed	7	A. I think one is a duplicate. Mrs. Martin
8	the depositions of Mr. Martin and Ms. Martin	8	again.
9	requiring three hours to review the record and to	9	Q. Okay. So you have two copies of
10	formulate an opinion and includes the time to discuss	10	Mrs. Martin's and one copy of Mr. Martin's
11	the opinion with your office. If a check can be sent	11	
	The state of the s		deposition?
12	in the amount of sixteen \$1,650. Did you, in	12	A. Yes.
13	in the amount of sixteen \$1,650. Did you, in fact, receive a check in that amount?		-
13 14	in the amount of sixteen \$1,650. Did you, in	12	A. Yes.Q. Did you receive any other deposition
13 14 15	in the amount of sixteen — \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there —	12 13	A. Yes.
13 14 15 16	in the amount of sixteen \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there Q. So there's no check receipt	12 13 14	A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel?
13 14 15 16 17	in the amount of sixteen \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there Q. So there's no check receipt A so it might still be floating around in	12 13 14 15	 A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of. Q. Okay. And the medical records from
13 14 15 16 17 18	in the amount of sixteen \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there Q. So there's no check receipt A so it might still be floating around in the office somewhere.	12 13 14 15 16	 A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of.
13 14 15 16 17 18 19	in the amount of sixteen \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there Q. So there's no check receipt A so it might still be floating around in the office somewhere. Q. Okay. So to your knowledge it's your	12 13 14 15 16 17	 A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of. Q. Okay. And the medical records from Mr. Martin that you received, do you know which treaters those included?
13 14 15 16 17 18 19 20	in the amount of sixteen \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there Q. So there's no check receipt A so it might still be floating around in the office somewhere. Q. Okay. So to your knowledge it's your normal course that if when you receive a check	12 13 14 15 16 17	 A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of. Q. Okay. And the medical records from Mr. Martin that you received, do you know which
13 14 15 16 17 18 19 20 21	in the amount of sixteen — \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there — Q. So there's no check receipt — A. — so it might still be floating around in the office somewhere. Q. Okay. So to your knowledge it's your normal course that if — when you receive a check for payment, you attach it to your letter?	12 13 14 15 16 17 18	 A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of. Q. Okay. And the medical records from Mr. Martin that you received, do you know which treaters those included? A. They're in this (indicating) thing if you
13 14 15 16 17 18 19 20 21 22	in the amount of sixteen — \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there — Q. So there's no check receipt — A. — so it might still be floating around in the office somewhere. Q. Okay. So to your knowledge it's your normal course that if — when you receive a check for payment, you attach it to your letter? A. I attach the receipt.	12 13 14 15 16 17 18 19	A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of. Q. Okay. And the medical records from Mr. Martin that you received, do you know which treaters those included? A. They're in this (indicating) thing if you want to look at it.
13 14 15 16 17 18 19 20 21 22 23	in the amount of sixteen \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there Q. So there's no check receipt A so it might still be floating around in the office somewhere. Q. Okay. So to your knowledge it's your normal course that if when you receive a check for payment, you attach it to your letter? A. I attach the receipt. Q. You attach the receipt to your letter?	12 13 14 15 16 17 18 19 20 21	A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of. Q. Okay. And the medical records from Mr. Martin that you received, do you know which treaters those included? A. They're in this (indicating) thing if you want to look at it. Q. Okay. If I can take a look at that.
13 14 15 16 17 18 19 20 21 22	in the amount of sixteen — \$1,650. Did you, in fact, receive a check in that amount? A. Normally we put the check receipt on there — Q. So there's no check receipt — A. — so it might still be floating around in the office somewhere. Q. Okay. So to your knowledge it's your normal course that if — when you receive a check for payment, you attach it to your letter? A. I attach the receipt.	12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Did you receive any other deposition transcripts from plaintiff's counsel? A. Not that I know of. Q. Okay. And the medical records from Mr. Martin that you received, do you know which treaters those included? A. They're in this (indicating) thing if you want to look at it. Q. Okay. If I can take a look at that. A. (Witness complies.)

9 (Pages 30 to 33)

	Page 34		Page 36
1	on the original; is that okay?	1	of months?
2	A. That's fine.	2	A. I don't know.
3	Q. Okay. We'll make copies before you leave.	3	Q. Was it in 2008?
4	A. Okay.	4	A. I would guess it was probably within weeks,
5	(Lee Exhibits 3, 4 and 5 were marked for	5	but I -
6	identification by Attorney Leskin.)	6	Q. Okay.
7	Q. I'm going to mark as Exhibit 3	7	A. I don't know.
′8	Lee Exhibit 3 the letter dated October 24th, 2008	8	Q. So to your best recollection it was
9	(indicating); as Exhibit 4 the letter dated	9	sometime in October 2008?
10	October 29th, 2008, and the attached check receipt;	10	MR. RICHARDS: Objection to form. He said
111	and as Lee Exhibit 5 your letter dated November 12th,	11	he doesn't know.
1	2008. This just makes it easier for us to identify	12	A. I don't know. I'm sorry.
12		13	Q. Okay. Could it have been in January 2008?
13	it on the record. Okay? So starting with Exhibit 3,	14	MR. RICHARDS: Objection to form.
14	this letter, as you can see, is dated October 24th,		
15	2008.	15	Q. I'm just trying to better understand when
16	A. Uh-huh.	16	
17	Q. How long prior to receiving that letter	17	A. I would be just guessing, but, yeah, maybe.
18	on or about October 24th, 2008, was the first time	18	Q. Okay.
19	you spoke with anyone from Zimmerman Reed or on	19	A. Sometime plus or minus two months.
20	behalf of the plaintiff about this case?	20	Q. Okay. That's fair.
21	A. How long - I'm sorry.	21	MR. OVERHOLTZ: Boy, he's sitting there,
22	Q. How long That letter is dated	22	he's our expert, none of this stuff even matters, and
23	October 24th, 2008, correct?	23	you're wasting your time.
24	A. Yes.	24	MS. LESKIN: Thank you.
25	Q. Do you know how long after October 24th,	25	MR. RICHARDS: And just so you know, Neil,
	Page 35		Page 37
1	2008, you first received that letter?	1	Judge Borg has stepped out of the room. He just
2	A. No.	2	MS. LESKIN: No, he's back in the room.
3	Q. Was it sometime around October 24th, 2008?	3	JUDGE BORG: I'm back.
4	A. Yes.	4	MR. RICHARDS: He just came back, but he
5	Q. Okay. How long before October 24th, 2008,	5	didn't hear the objection.
6	did you first speak to anyone representing	6	MS. LESKIN: Okay. I didn't have a
7	Mr. Martin?	7	question on the table, so there's no objection, just
8	A. I don't know that. I'm not even sure I	8	a statement for the record that he made.
9	did. Maybe someone called and said here's the	9	MR. RICHARDS: Just so he knows.
10	records, here's the issue, would you like to review	10	MR. BECNEL: I join in the objection.
11	the records, something like that. I can't remember	11	MS. LESKIN: If I can get a question out,
12	dates.	12	it would be very helpful.
13	Q. Okay. So prior to receiving this letter	13	MR. BECNEL: Yeah, but you had one out, and
14	from Ms. Hansen, you don't recall any conversation	14	Neil objected, and now I object.
15	with Mr. Overholtz or Ms. Stacy Hauer?	15	Q. Dr. Lee, do you keep any notes of any of
16	A. No, normally someone would call	16	the consults that you have from a litigation
17	Q. Okay.	17	standpoint? So when lawyers call you, do you keep a
18	A in advance and say this is what we have,	18	note or a record of the conversations you have with
19	would you be interested in looking at the record —	19	them?
20	Q. Okay.	20	A. No.
21	A but I can't tell you the date or who.	21	Q. Do you know whether you spoke with
22	Q. Okay. Can you tell me approximately how	22	Mr. Overholtz or Ms. Hauer in the first instance?
23	long it was?	23	A. No.
24	A. No.	24	Q. Do you recall the substance of the
25	Q. Was it a matter of weeks; was it a matter	25	conversation that you had with them?

10 (Pages 34 to 37)

	Page 38		Page 40
١,			Page 40
1	A. No.	1	three hours and included time to discuss your
2	Q. And so sometime in October of 2008 the	2	opinion, again, with Mr. Overholtz or others in the
3	records just showed up on your — in your mailbox,	3	office. Do you recall anything about the substance
4	is that fair?	4	of that conversation that's referenced in Exhibit 5?
5	A. No. Normally they say we have a case,	5	A. No, but I think similar to the opinion
6	would you like to look at it, and I say send it or	6	summary.
7	not.	7	Q. At what point in time were you asked to
8	Q. Okay.	8	take your opinion and prepare a report?
9	A. But I don't recall -	9 .	A. After this date (indicating) sometime, but
10	Q. But you don't recall any of the substance	10	I don't know the exact date.
11	of the conversation you had prior to receiving the	11	Q. November 12th, 2008?
12	records in October 2008?	12	A. Yeah.
13	A. That's correct.	13	Q. Other than the deposition transcripts of
14	Q. Do you know what records you received with	14	Mr. and Mrs. Martin and the medical records that you
15	this letter that we've marked as Exhibit 3?	15	were provided, was there anything else about
16	A. I think all of these (indicating) came with	16	Mr. Martin that you reviewed?
17	that, but I don't know for sure.	17	A. No.
18	Q. The medical records and the deposition	18	Q. Was there anything else about Mr. Martin
19	transcripts?	19	that you discussed with the plaintiff's counsel?
20	A. I think the depositions came later.	20	A. I'm sure we talked about a lot of things
21	Q. Okay. We marked as Exhibit 4 the letter	21	about Mr. Martin, but I don't remember all the
22	dated October 29th, and you said you spent three	22	questions they asked.
23	hours reviewing the record and formulating an	23	Q. Okay. Did you talk about the deposition
24	opinion, and it includes the time to discuss the	24	testimony given by any of his treating physicians?
25	opinion with your office, and that's the letter sent	25	A. I don't think so.
	Page 39		Page 41
1	to Ms. Hansen, who is identified as a paralegal to	1	Q. Did you talk about the reports given by any
2	Mr. Overholtz, correct?	2	other expert in this litigation?
3	A. Yes.	3	A. I don't think so.
4	Q. Okay. What do you recall, if anything, of	4	Q. Were you aware that there were other
5	the conversation you had about the records you	5	experts in this litigation?
6	reviewed that you referred to in this letter?	6	A. I was aware there were other experts, but I
7	A. Those records that I reviewed?	7	don't know who they are.
8	Q. Whatever records you reviewed at the time	8	Q. Were you told anything about the status of
9	you sent this letter.	9	the litigation?
10	A. It's very similar to the opinions I gave as	10	A. No.
11	a summary.	11	Q. How long did it take you to write the
12	Q. Okay. And that was the report that you've	12	opinion in this case?
13	given in this case?	13	A. Like actually type it up?
14	A. Yes.	1	. * **
15	Q. Okay. At any time - Now, did you talk to	14	Q. Yes.
16	Mr. Overholtz or to someone else in the office?	15	A. It probably took an hour and a half maybe.
17	A. I don't remember.	16	Q. Did anyone help you do that
18		17	A. No.
19	Q. Do you know if it was male or female? A. Sometimes it was Mr. Overholtz, but	18	Q or did you do it yourself?
20	·	19	A. Just me.
1	sometimes it was associates, but I can't remember who	20	Q. And did you provide a draft to any of the
21	they were.	21	plaintiff's counsel before you signed it?
22	Q. Did you ever speak to Mr. Richards before?	22	A. I think I sent an e-mail nonheadered copy,
23	A. I think so.	23	yes.
24 25	Q. Then Exhibit 5 references your review of the depositions of Mr. and Mrs. Martin that took	24	Q. And did they give you any comments?
	the depositions of Mr. and Mrs. Martin that took	25	A. I don't think so.

11 (Pages 38 to 41)

1	Page 42		Page 44
1	Q. And to whom did you send that e-mail?	1	Q. How many drafts did you send to them by
2	A. The Overholtz office.	2	e-mail before the final version?
3	Q. Did you keep a copy of what you sent?	3	A. I think just one.
4	A. No.	4	Q. And how long before the final version was
5	Q. If you wanted to check to see whether you	5	sent did you send this to them?
6	you still had a copy of the prior draft of your	6	A. I think right away. They said good and
7	report, where would you check?	7	yes.
8	A. The deleted files. I don't know.	8	(Lee Exhibit 6 was marked for
9	Q. Did you make an effort to look for the	9	identification by Attorney Leskin.)
10	version you had e-mailed them?	10	Q. I'll show you what's marked as Exhibit 6
11	A. No.	11.	a copy of the expert report that we received in this
12	Q. Were you aware that that had been requested	12	case, and that is, in fact, your expert report,
13	in the subpoena that you were served with?	13	correct?
14	A. I didn't have it, so I can't remember what	14	A. Yes.
15	I don't have.	15	Q. And that's your signature on the front
16	Q. Well, did you look to see if you had it?	16	page?
17	A. I guess I could get the IT guy to go into	17	A. Yes.
1.8	the deleted files, but normally I can't do that.	18	Q. And at the time you signed this front page
19	Q. Okay. But do you have a specific	19	was it attached to the report that you prepared?
20	recollection of deleting that file?	20	A. Yes.
21	A. Normally it just overwrites the old one,	21	(Lee Exhibit 7 was marked for
22	you know, so you have to go back and get the	22	identification by Attorney Leskin.)
23	Q. Well, but you indicated that you sent an	23	Q. I've marked as Exhibit 7 (indicating) a
24	e-mail to plaintiff's counsel with an earlier version	24	copy of the deposition list that we were provided,
25	of your report.	25	1996 through 2008, and you prepared this and gave
1	D 40		
1	Page 43		Page 45
1	A. Yeah, they just overwrite on top of it.	1	Page 45 that to plaintiffs, correct?
1 2	en e	1 2	·
1	A. Yeah, they just overwrite on top of it.	ì	that to plaintiffs, correct?
2	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the - I don't keep the version I sent to them. They kept it. 	2	that to plaintiffs, correct? A. Yes.
2	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the - I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? 	2 3	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes.
2 3 4	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. 	2 3 4 5 6	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here.
2 3 4 5 6 7	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm 	2 3 4 5 6 7	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most
2 3 4 5 6 7 8	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to 	2 3 4 5 6 7 8	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most
2 3 4 5 6 7 8 9	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. 	2 3 4 5 6 7 8 9	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order?
2 3 4 5 6 7 8 9	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. 	2 3 4 5 6 7 8 9	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic
2 3 4 5 6 7 8 9 10	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox 	2 3 4 5 6 7 8 9 10	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and
2 3 4 5 6 7 8 9 10 11	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox as to whether any e-mails still existed? 	2 3 4 5 6 7 8 9 10 11	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and some are done, and some are active, some are
2 3 4 5 6 7 8 9 10 11 12 13	 A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox as to whether any e-mails still existed? A. None of those exist. 	2 3 4 5 6 7 8 9 10 11 12 13	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and some are done, and some are active, some are Q. Okay. So let me ask
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox as to whether any e-mails still existed? A. None of those exist. Q. Did you check in your outbox to see if any existed?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and some are done, and some are active, some are Q. Okay. So let me ask A. Like you mean from when I received the record?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox as to whether any e-mails still existed? A. None of those exist. Q. Did you check in your outbox to see if any existed? A. Yes, because our mailbox fills up quite	2 3 4 5 6 7 8 9 10 11 12 13 14 15	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and some are done, and some are active, some are Q. Okay. So let me ask A. Like you mean from when I received the record? Q. Let's use that as our date, yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox as to whether any e-mails still existed? A. None of those exist. Q. Did you check in your outbox to see if any existed? A. Yes, because our mailbox fills up quite quickly, so you have to delete all the sends and all the deleted e-mails; otherwise, you can't use it. It's a very small box.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and some are done, and some are active, some are Q. Okay. So let me ask A. Like you mean from when I received the record? Q. Let's use that as our date, yes. A. It's probably oldest to newest then. Q. Okay. So the most recent case other than this one that you've worked on is Ramsey versus
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox as to whether any e-mails still existed? A. None of those exist. Q. Did you check in your outbox to see if any existed? A. Yes, because our mailbox fills up quite quickly, so you have to delete all the sends and all the deleted e-mails; otherwise, you can't use it. It's a very small box. Q. Did any of plaintiff's counsel give you any comments on any — on the drafts that you sent them?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and some are done, and some are active, some are Q. Okay. So let me ask A. Like you mean from when I received the record? Q. Let's use that as our date, yes. A. It's probably oldest to newest then. Q. Okay. So the most recent case other than this one that you've worked on is Ramsey versus Frank, is that correct? A. Most recent would be, yeah, Ramsey versus Frank.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah, they just overwrite on top of it. Q. On top of the e-mail? A. No, on the — I don't keep the version I sent to them. They kept it. Q. Did you keep the e-mail you sent to them? A. No. Q. You delete out of your send folder? I'm asking if you have the e-mail that you sent to plaintiff's counsel. A. I don't keep any of those. Q. Okay. Did you check to see in your outbox as to whether any e-mails still existed? A. None of those exist. Q. Did you check in your outbox to see if any existed? A. Yes, because our mailbox fills up quite quickly, so you have to delete all the sends and all the deleted e-mails; otherwise, you can't use it. It's a very small box. Q. Did any of plaintiff's counsel give you any comments on any — on the drafts that you sent them?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that to plaintiffs, correct? A. Yes. Q. Okay. And that's a This appears to be a complete copy of the list, correct? A. Yes. Q. You don't have any dates listed on here. Does this go in chronological order with the most recent first, or chronological order with the most recent last, or are they not in chronological order? A. I don't mean to be vague, but chronologic is not accurate, because they're overlapping, and some are done, and some are active, some are Q. Okay. So let me ask A. Like you mean from when I received the record? Q. Let's use that as our date, yes. A. It's probably oldest to newest then. Q. Okay. So the most recent case other than this one that you've worked on is Ramsey versus Frank, is that correct? A. Most recent would be, yeah, Ramsey versus Frank.

12 (Pages 42 to 45)

	Page 46		Page 48
1	Q in time?	1	in that case?
2	A. And after this I'll add this on here.	2	A. No.
3	Q. You'll add what?	3	Q. Do you remember the injury that was
4	A. I'll add this on there.	4	involved in that case?
5	Q. Okay. And have there been any other cases	5	A. I'm sure it was neuroophthalmologic
6	that you've been retained in since this list was	6	related, but I can't tell you what it was.
7	prepared or provided to us?	7	
8	A. That I've given deposition in?	8	Q. Do you know what the allegation was in that case?
9	O. Yes.	وا	A. No.
10	A. No.	10	Q. Has your testimony ever been excluded by a
11	Q. Have there been any other cases that you've	11	court?
12	been retained to prepare a report?	12	A. No.
13	A. No. There are other cases we're at various	13	· · · · · · · · · · · · · · · · · · ·
14	stages of looking at the records.	14	(Lee Exhibit 8 was marked for
15	Q. Okay. How many of these cases that you	I	identification by Attorney Leskin.)
16	have listed in Exhibit 7 involve a product liability	15	Q. I'm going to hand you what we've marked as
17	case? Do you know what I mean by that?	16	Exhibit 8, which is a letter dated October 29th,
18	A. Yes.	17	2008, purporting to be from you to Ms. Ann Hansen.
19	Q. Okay.	18	A. Yes.
20		19	Q. Did you, in fact, write this letter?
21	A. Not very many. Maybe one.	20	A. Yes, including the misspelling.
22	Q. Okay. Which one?	21	Q. Which misspelling?
22 23	A. But I can't remember which one it is.	22	A. The spell check made neuro into neuron.
23 24	Maybe it has a company name on it, though.	23	Q. But this is a letter that you wrote and
25 25	Aventis Pasteur.	24	you prepared, correct?
23	Q. What page? That's the Ken Lewis case?	25	A. Yes.
	Page 47		Page 49
1	A. Yes.	1	Q. And did you prepare it on or about
2	Q. Is that - The attorney is Ken Lewis?	2	October 29th, 2008?
3	A. Yes.	3	A. Yes.
4	Q. And who did you testify for in that case,	4	Q. And what was the reason for preparing this
5	which side?	5	letter?
6	A. I don't know.	6	A. I think Mr. Overholtz's office asked us to
7	Q. Do you know the product that was involved	7	send this letter.
8	in that case?	8	Q. Did they explain to you why they asked you
9	A. No.	9	to send this letter?
10	Q. When was that case?	10	A. No.
11	A. I don't know.	11	Q. As of October 29th, 2008, had you, in fact,
12	Q. Would you have any records that indicate	12	reached an opinion in this case?
13	when that case was pending?	13	A. Yes.
14	A. No. After the case is closed I destroy the	14	Q. And after October 29th, 2008, did you
15	records.	15	review any other materials besides Mr. Martin's
16	Q. Do you have any records or any kind of	16	medical records?
		17	A. The depositions.
	record that would indicate who Mr. Lewis was	1 4 /	
17	record that would indicate who Mr. Lewis was representing in that case?	1	O. And did that make any difference in your
17 18	representing in that case?	18	Q. And did that make any difference in your opinion?
17 18 19		18 19	opinion?
17 18 19 20	representing in that case? A. No. After the case is closed I destroy everything.	18 19 20	opinion? A. No.
17 18 19 20 21	representing in that case? A. No. After the case is closed I destroy everything. Q. Okay. And sitting here today you don't	18 19 20 21	opinion? A. No. Q. Are there any Is there anything else
17 18 19 20 21	representing in that case? A. No. After the case is closed I destroy everything.	18 19 20 21 22	opinion? A. No. Q. Are there any Is there anything else that you relied upon in preparing your opinion in
17 18 19 20 21 22 23 24	representing in that case? A. No. After the case is closed I destroy everything. Q. Okay. And sitting here today you don't have a recollection one way which side you testified on?	18 19 20 21 22 23	opinion? A. No. Q. Are there any Is there anything else that you relied upon in preparing your opinion in this case?
17 18 19 20 21 22	representing in that case? A. No. After the case is closed I destroy everything. Q. Okay. And sitting here today you don't have a recollection one way — which side you	18 19 20 21 22	opinion? A. No. Q. Are there any Is there anything else that you relied upon in preparing your opinion in

13 (Pages 46 to 49)

1.	Page 50		Page 52
1	A. No.	1	Q. Do you know Dr. Williams?
2	Q. Did you ever examine Mr. Martin?	2	A. No.
3	A. No.	3	Q. Do you know Dr. Neal Sher?
4	Q. Did you ever speak with Mrs. Martin?	4	A. Neal Sher I know
5	A. No.	5	Q. Okay.
6	Q. And to be clear, you've never spoken with	6	A but only peripherally. I don't know him
7	any of the other expert witnesses in this case,	.7	personally.
8	correct?	8	Q. Have you spoken to Dr. Sher about this
9	A. I have not.	9	litigation?
10	Q. Do you know Dr. Heyreh?	10	A. No.
11	A. Yes.	11	Q. Were you aware that he's an expert for the
12	Q. Have you worked with Dr. Heyreh?	12	plaintiffs in this litigation?
13	A. Yes.	13	A. No.
14	Q. Okay. Have you spoken with Dr. Heyreh	14	Q. Do you know a Dr. Witt?
15	about the Viagra litigation?	15	A. No.
16	A. No.	16	Q. Do you know Dr. Cheryl Blume?
17	Q. Are you aware that Dr. Heyreh was an expert	17	A. No.
18	for plaintiffs in this litigation?	18	Q. Had you ever worked with Mr. Overholtz
19	A. No.	19	prior to this litigation?
20	Q. No one told you that?	20	A. No.
21	A. No.	21	Q. Had you ever worked with anyone from the
22	Q. Do you know Dr. Pomeranz; Howard Pomeranz?	22	Zimmerman Reed firm prior to this litigation?
23	A. Yes.	23	A. I don't think so.
24	Q. Have you spoken to Dr. Howard Pomeranz?	24	Q. Do you know how they came to contact you
25	A. About this?	25	for this litigation?
	Page 51		Page 52
	. ,	l	Page 53
1	Q. Well Yes, about this.	1	A. No.
1 2	Q. Well – Yes, about this.A. No.	1 2	_
1	Q. Well – Yes, about this.A. No.Q. Were you aware that Dr. Pomeranz was an	1	A. No. Q. Do you know Dr. Simmons Lessel? A. Yes.
2 3 4	 Q. Well Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? 	2 3 4	A. No.Q. Do you know Dr. Simmons Lessel?A. Yes.Q. Have you spoken to Dr. Lessel about this
2 3	 Q. Well Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? A. Yes, today. 	2 3 4 5	A. No.Q. Do you know Dr. Simmons Lessel?A. Yes.Q. Have you spoken to Dr. Lessel about this litigation?
2 3 4 5 6	 Q. Well - Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? A. Yes, today. Q. When did you learn that? 	2 3 4 5 6	 A. No. Q. Do you know Dr. Simmons Lessel? A. Yes. Q. Have you spoken to Dr. Lessel about this litigation? A. No.
2 3 4 5 6 7	 Q. Well - Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? A. Yes, today. Q. When did you learn that? A. In the hallway. 	2 3 4 5 6 7	 A. No. Q. Do you know Dr. Simmons Lessel? A. Yes. Q. Have you spoken to Dr. Lessel about this litigation? A. No. Q. Were you aware that he was an expert for
2 3 4 5 6 7 8	 Q. Well - Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? A. Yes, today. Q. When did you learn that? A. In the hallway. Q. From whom? 	2 3 4 5 6 7 8	 A. No. Q. Do you know Dr. Simmons Lessel? A. Yes. Q. Have you spoken to Dr. Lessel about this litigation? A. No. Q. Were you aware that he was an expert for Pfizer in this litigation?
2 3 4 5 6 7 8 9	 Q. Well - Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? A. Yes, today. Q. When did you learn that? A. In the hallway. Q. From whom? A. The attorney (indicating). 	2 3 4 5 6 7 8	 A. No. Q. Do you know Dr. Simmons Lessel? A. Yes. Q. Have you spoken to Dr. Lessel about this litigation? A. No. Q. Were you aware that he was an expert for Pfizer in this litigation? A. No.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Well — Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? A. Yes, today. Q. When did you learn that? A. In the hallway. Q. From whom? A. The attorney (indicating). Q. Mr. Richards? A. Yes. Q. And what were you told about Dr. Pomeranz's role in this litigation? A. I don't know. His name just came up, but — Q. Were you told that his opinion had been excluded from this litigation? A. I didn't know that. Q. Have you ever spoken to Dr. Pomeranz about Viagra? A. Yes. Q. Do you know Dr. Gerald McGwin?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Q. Do you know Dr. Simmons Lessel? A. Yes. Q. Have you spoken to Dr. Lessel about this litigation? A. No. Q. Were you aware that he was an expert for Pfizer in this litigation? A. No. Q. Have you looked at his report that he gave in this litigation? A. No. Q. Do you know Dr. Stephen Kimmel? A. No. Q. Do you know Dr. John Mulcahy? A. No. Q. Do you know Dr. Daniel Shames? A. No. Q. Do you know Dr. Daniel Shames? A. No. Q. During any of the conversations you had with Mr. Overholtz or anyone else from any of the law firms representing plaintiff — Mr. Martin — representing plaintiff — Let me strike that. Let me
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Well — Yes, about this. A. No. Q. Were you aware that Dr. Pomeranz was an expert for plaintiffs in this litigation? A. Yes, today. Q. When did you learn that? A. In the hallway. Q. From whom? A. The attorney (indicating). Q. Mr. Richards? A. Yes. Q. And what were you told about Dr. Pomeranz's role in this litigation? A. I don't know. His name just came up, but — Q. Were you told that his opinion had been excluded from this litigation? A. I didn't know that. Q. Have you ever spoken to Dr. Pomeranz about Viagra? A. Yes. Q. Do you know Dr. Gerald McGwin?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Q. Do you know Dr. Simmons Lessel? A. Yes. Q. Have you spoken to Dr. Lessel about this litigation? A. No. Q. Were you aware that he was an expert for Pfizer in this litigation? A. No. Q. Have you looked at his report that he gave in this litigation? A. No. Q. Do you know Dr. Stephen Kimmel? A. No. Q. Do you know Dr. John Mulcahy? A. No. Q. Do you know Dr. Daniel Shames? A. No. Q. Do you know Dr. Daniel Shames? A. No. Q. During any of the conversations you had with Mr. Overholtz or anyone else from any of the law firms representing plaintiff — Mr. Martin — representing plaintiff — Let me strike that. Let me

14 (Pages 50 to 53)

1	Page 54		Page 56
1	A. Yes.	1	plaintiffs that you specifically discussed with
2	Q. And who else did you talk about?	2	plaintiff's counsel?
3	A. I can't remember the names.	3	A. I don't think there were others. I think
4	Q. Okay. And what were you told about these	4	maybe they had given various scenarios, but I don't
5	other plaintiffs?	5	remember their names.
6	A. They had similar allegations.	6	Q. Okay. Now, we talked a little bit about
7	Q. Okay. Did the name Richard Stanley get	7	nonarteritic ischemic optic neuropathy, which we've
8	mentioned to you?	8	been calling NAION for short. I want to talk just a
9	A. Yes.	9	few minutes about what NAION is. Okay?
10	Q. And what were you told about Mr. Stanley?	10	A. (Witness nods head.)
11	A. Similar allegation.	11	Q. Yes?
12	Q. Okay. And were you told anything about	12	A. Yes.
13	Mr. Stanley's medical history?	13	Q. Okay. Now, it's a type of optic
14	A. Yes.	14	neuropathy, right?
15	Q. What were you told?	15	A. Yes.
16	A. I don't remember all the – because I	16	Q. And that means that it's an injury to the
17	didn't have the whole thing to look at.	17	optic nerve?
18	Q. Were you asked to write a report in	18	A. Yes.
19	Mr. Stanley's case?	19	Q. And the A, the anterior, that means it's
20	A. No.	20	the anterior portion of the optic nerve that's
21	Q. Were you asked to give an opinion in	21	affected, right?
22	Mr. Stanley's case?	22	A. Yes.
23	A. Yes.	23	Q. And the anterior portion is the very front
24	Q. Okay. And did you, in fact, give an	24	of the optic nerve, correct?
25	opinion in Mr. Stanley's case?	25	A. Yes.
	Page 55		Page 57
1			rage 37
	A VAS	٠,	O Made a 4d at 1111111
i	A. Yes. O. And what oninion did you give in	1	Q. It's the part that's right behind the
2	Q. And what opinion did you give in	2	eyeball, is that right?
2 3	Q. And what opinion did you give in Mr. Stanley's case?	2 3	eyeball, is that right? A. It's where the eyeball and the eye nerve
2	Q. And what opinion did you give inMr. Stanley's case?A. The strength of the case was not as good as	2 3 4	eyeball, is that right? A. It's where the eyeball and the eye nerve meet (indicating).
2 3 4	Q. And what opinion did you give inMr. Stanley's case?A. The strength of the case was not as good as the Martin case.	2 3 4 5	eyeball, is that right? A. It's where the eyeball and the eye nerve meet (indicating). Q. Okay. And that's referred to sometimes as
2 3 4 5	 Q. And what opinion did you give in Mr. Stanley's case? A. The strength of the case was not as good as the Martin case. Q. Did you ever receive any medical records 	2 3 4 5 6	eyeball, is that right? A. It's where the eyeball and the eye nerve meet (indicating). Q. Okay. And that's referred to sometimes as the optic nerve head?
2 3 4 5 6	 Q. And what opinion did you give in Mr. Stanley's case? A. The strength of the case was not as good as the Martin case. Q. Did you ever receive any medical records from Mr. Stanley? 	2 3 4 5 6 7	eyeball, is that right? A. It's where the eyeball and the eye nerve meet (indicating). Q. Okay. And that's referred to sometimes as the optic nerve head? A. Yes.
2 3 4 5 6 7	 Q. And what opinion did you give in Mr. Stanley's case? A. The strength of the case was not as good as the Martin case. Q. Did you ever receive any medical records from Mr. Stanley? A. I think we had limited — limited 	2 3 4 5 6 7 8	eyeball, is that right? A. It's where the eyeball and the eye nerve meet (indicating). Q. Okay. And that's referred to sometimes as the optic nerve head? A. Yes. Q. And the reference to ischemia indicates
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15 (Pages 54 to 57)

	Page 58		Page 60
1	right?	1	Q. The location of the visual defect the
2	A. That's correct.	2	visual field defect changes?
3	Q. Okay. But no one has yet determined with	3	A. Not that it changes. It's just variable
4	any specificity what the cause is?	4	between patient.
5	A. It's probably multifactorial, so it cannot	5	Q. That's what I meant. It varies from
6	be assigned basically to one thing.	6	patient to patient, right?
7	Q. We have about eight minutes left on the	7	A. Yes.
8	video before they have to change, so I just want to	8	Q. And the progression within each patient
9	ask you a couple more questions, and then we're going	9	varies?
10	to take a short break, change the video and come	10	A. Most don't progress, but some do.
11	right back. Okay?	11	Q. And the extent of vision loss varies from
12	A. All right.	12	patient to patient?
13	Q. Which vessels Which blood vessels feed	13	A. Yes.
14	the anterior portion of the optic nerve?	14	Q. And the final visual acuity is different,
15	A. Well, the central retinal artery's on the	15	right, from patient to patient it varies from
16	top, but the posterior ciliary arteries are the ones	16	patient to patient?
17	that go to the back part of the anterior portion of	17	A. Yes.
18	the nerve.	18	Q. Once NAION Once the insult occurs does
19	Q. And those branch off of the ophthalmic	19	NAION come and go, or is it just always going to be
20	artery, correct?	20	there now?
21	A. Yes.	21	A. It comes and stays.
22	Q. Which branches off of the carotid artery?	22	Q. And does the visual loss that the patient
23	A. Yes.	23	experiences as a result of the NAION, does that come
24	Q. Which is part of the main aorta coming up	24	and go, or does that either progress or get better,
25	from the heart, is that right?	25	or is it consistent That's a bad question. Let me
	Page 59		Page 61
1	A. Yes.	1	start that again. When a patient has vision loss
2	MS. LESKIN: Okay. We're going to take a	2	from NAION, does the vision loss that they experience
3	short break, and we'll change the videotape.	3	come and go, or is it consistent?
			como ana go, or is it consistent:
4	JUDGE BORG: Mr. Videographer, what time?	4	
4 5	JUDGE BORG: Mr. Videographer, what time? THE VIDEOGRAPHER: 2:01.	4 5	A. It comes and stays, but they might have
5	THE VIDEOGRAPHER: 2:01.	5	A. It comes and stays, but they might have variability from day to day in their function.
5 6	THE VIDEOGRAPHER: 2:01. (A brief recess was taken.) JUDGE BORG: Back on. Time? THE VIDEOGRAPHER: 2:06 p.m.	5 6	A. It comes and stays, but they might have variability from day to day in their function. Q. But if a patient has a visual field defect,
5 6 7	THE VIDEOGRAPHER: 2:01. (A brief recess was taken.) JUDGE BORG: Back on. Time?	5 6 7	A. It comes and stays, but they might have variability from day to day in their function. Q. But if a patient has a visual field defect, will their vision suddenly become normal before it
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Page 62
                                                                                                              Page 64
       this coming and going of visual loss?
                                                               1
                                                                       A. Yes.
  2
          A. It's not that it comes and goes. It just
                                                                       Q. Okay. And if you look at the left-hand
                                                               2
  3
       has fluctuation.
                                                                    column of that book chapter --
                                                               3
          Q. If you look into a person's eye, can you
  4
                                                               4
                                                                       A. Yes.
  5
       tell what caused their NAION?
                                                               5
                                                                       Q. - of that page, I should say, the second
  6
          A. No.
                                                               6
                                                                    paragraph reads, although it is rare for nonarteritic
  7
          Q. If you look into a person's eye, can you
                                                               7
                                                                    AION, N A, hyphen, A I O N, to recur in the same eye,
       tell how the disease is going to progress in that
  8
                                                                    it may involve the fellow eye in 10.5 percent to
                                                               8
  9
                                                                    73 percent of cases, with most authors citing
                                                               9
 10
          A. No.
                                                              10
                                                                    contralateral eye involvement in 25 percent to
11
          Q. Now, the natural -- We talked about the
                                                              11
                                                                    40 percent of cases. Did I read that correctly?
       natural progression. You said it comes - the vision
12
                                                              12
                                                                       A. Yes.
 13
       loss comes and stays, but sometimes over time it
                                                                       Q. And that was based on the literature that
                                                              13
 14
       may -- vision loss may improve, right?
                                                              14
                                                                    you reviewed in preparing this article, correct?
15
          A. It might improve.
                                                              15
                                                                       A. Yes, but this is not up to date.
16
          Q. Or it might get worse?
                                                              16
                                                                       Q. Okay. What is the more -- What do you rely
17
          A. Or it could get worse.
                                                              17
                                                                    on for more up-to-date figures?
18
          Q. And it's common that sometimes people who
                                                              18
                                                                       A. The ischemic optic neuropathy decompression
       have NAION in one eye will get NAION in the second
19
                                                              19
                                                                    trial.
20
                                                              20
                                                                       Q. Okay. And what is a number in that trial?
21
          A. That's uncommon.
                                                              21
                                                                       A. It's more like 12 to 14 percent, something
22
          Q. Uncommon?
                                                              22
                                                                    like that.
23
          A. Uncommon.
                                                              23
                                                                          (Lee Exhibit 10 was marked for
24
          O. Okav.
                                                              24
                                                                    identification by Attorney Leskin.)
25
             MS. LESKIN: I apologize. I don't have a
                                                              25
                                                                       Q. We're going to mark as Exhibit 10 --
                                                Page 63
                                                                                                              Page 65
       copy of this exhibit (indicating). If I find one,
 1
                                                               1
                                                                    You can give that (indicating) to counsel, please.
  2
       I'll give it to you.
                                                               2
                                                                       A. (Witness complies.)
  3
             (Lee Exhibit 9 was marked for
                                                               3
                                                                          MR. BECNEL: Lori, did you attach that
  4
       identification by Attorney Leskin.)
                                                               4
                                                                    chapter as an exhibit?
 5
          Q. I'm going to mark as Exhibit 9 a chapter
                                                               5
                                                                          MS. LESKIN: Yes, Exhibit 9.
  6
       called Neuroophthalmology, which is chapter 7 in a
                                                               6
                                                                          MR. BECNEL: Okay. I can't see what you're
  7
       book called Prognosis of Neurological Disorders.
                                                               7
                                                                    doing, that's why.
 8
       You can show it to counsel.
                                                               8
                                                                          MS. LESKIN: Understood.
 9
          A. (Witness complies.)
                                                               9
                                                                       Q. Exhibit 10 is an article by Nancy J.
10
          Q. And I'd like to direct your attention to
                                                             10
                                                                    Newman, et al, entitled The Fellow Eye in NAION:
11
       page 100 of the exhibit --
                                                             11
                                                                    Report From the Ischemic Optic Neuropathy
12
             MR. RICHARDS: I still have the exhibit in
                                                             12
                                                                    Decompression Trial Follow-Up Study. Is that the
13
       front of me.
                                                                    article you're referring to, Doctor?
                                                             13
14
             MS. LESKIN: Okay.
                                                             14
                                                                       A. Yes.
15
          Q. First let me direct your attention to
                                                             15
                                                                       Q. Okay. And if you look at page 320 of that
16
      page 97 of the exhibit, which is actually page 97 of
                                                             16
                                                                    article --
17
       the book; it's not 97 pages long. This is a book
                                                             17
                                                                       A. (Witness complies.)
18
      chapter you wrote, correct --
                                                             18
                                                                       Q. -- in the right-hand column it says over
19
         A. Yes.
                                                             19
                                                                    the course of the IONDT patient follow-up,
20
         Q. -- with Paul Brazis, BRAZIS?
                                                             20
                                                                    14.7 percent of patients at risk experience new
21
         A. Yes.
                                                             21
                                                                    NAION in the fellow eye, right?
22
         Q. And if you look at the page marked 100,
                                                             22
                                                                       A. Yes.
23
      you'll see there's a section of the chapter called
                                                             23
                                                                       Q. And is that the data that you were
24
      nonarteritic anterior ischemic optic neuropathy,
                                                             24
                                                                    referring to?
25
      right?
                                                             25
                                                                       A. Yes.
```

17 (Pages 62 to 65)

Page 66 Page 68 1 O. Okay. So in this study at least almost 1 A. This one right here (indicating)? 2 15 percent of the patients experienced NAION in the 2 Q. It says -- Right. The paragraph that 3 other eye, right? starts the median interval. 3 4 A. Yes. It's much lower than we used to 4 A. Yes, I think you read it - what it says. 5 think. 5 Q. Okay. And she reported that the median Q. And the time frame that Dr. Newman followed 6 6 interval between original NAION and new NAION was 7 7 up her patients was a median of about -- a little 1.2 years, correct? 8 over a year, right? 8 A. Yes. 9 9 A. I think this is a five-year data study. Q. And the range she reported was from sixteen 10 Q. Well, if you look at page 320 again --10 days up to six years, right? 11 A. I-11 A. Yes. 12 O. You're right. I misspoke. The time 12 O. And she goes on to report that nearly half 13 interval between the original onset and new --13 of the fellow eye NAION events, which she says is 14 Strike that. The time interval in her study between 14 twenty-two out of forty-eight of them, occurred in the original onset and the event in the second eye, 15 the first year following the original event, right? 15 that median time interval was 1.2 years, right? 16 16 17 A. I think that's about right. 17 MR. RICHARDS: I was just going to --18 MR. RICHARDS: I'm going to ask if 18 You're paraphrasing, right? You're not quoting Ms. Leskin is going to ask some questions relating 19 19 directly? 20 to the paper, that he be allowed the chance to at 20 MS. LESKIN: That's correct. If he has any 21 least review the paper if he needs to to make sure 21 problem with my paraphrasing, the doctor is more than 22 22 he's familiar with it so he can answer the questions. capable of checking that. 23 MS. LESKIN: He can take as much time as 23 Q. But I paraphrased that correctly, right? 24 he wants. If he --24 A. Yes. 25 25 Q. If you can't answer my question, and you Q. Now, to be clear, and please take your time Page 67 Page 69 1 need time to review the paper, please tell me, and 1 to read as much of the article as -- specifically 2 I'll be happy to give you as much time as you need. 2 this section on risk of NAION in the fellow eye as 3 JUDGE BORG: It doesn't sound like there's 3 you need, but the numbers that Dr. Newman report are 4 an objection to the objection. 4 the patients who develop NAION in the second eye 5 MS. LESKIN: Nope. 5 during the course of her follow-up, correct? 6 MR. RICHARDS: Do you need time to review 6 A. Yes. 7 7 Q. And she starts off this section saying 8 THE WITNESS: Not for the questions she's 8 that study neuroophthalmologists determined at the 9 asked so far. 9 baseline examination that eighty patients, or Q. And if you look at that right-hand column, 10 19 percent of total, had had an episode of NAION in 10 that first full paragraph, in fact, Dr. Newman, 11 the fellow eye before enrollment, correct? 11 12 et al, writes, the median interval between study 12 A. Yes. eve NAION, using enrollment date, and occurrence of 13 O. And concludes the section reporting that 13 14 new NAION in the fellow eye was 1.2 years, right? 14 30.6 percent of the patients based -- had -- Strike 15 That's what she wrote? 15 that -- that 30.6 percent of the patients had NAION 16 16 A. (Witness nods head.) in the second eye, correct? 17 Q. Yes? 17 A. In the second eye, but they had it 18 A. Yes. 18 before - some of them had it before they entered MR. RICHARDS: Are you looking at the 19 19 the study. 20 Q. Correct. So that patients -- 30.6 percent 20 actual page, Dr. Lee? 21 21 Q. Page 320. of the patients, though, had at some point in their A. Which page are you on? 22 22 lives developed bilateral NAION, correct? 23 Q. I'm sorry. Page 320, the right-hand column 23 A. I'm sorry. You'll have to rephrase that. under the table, the first full paragraph. Do you 24 Q. Sure. The NAION -- the ischemic optic 24 25 neuropathy decompression trial --25 see where I read that from?

18 (Pages 66 to 69)

```
Page 70
                                                                                                               Page 72
  1
          A. Yes.
                                                                1
                                                                     event, they don't count, because they already had
  2
          Q. -- was a study of patients with NAION.
                                                                2
                                                                     their event before.
  3
       correct?
                                                                3
                                                                        Q. But they had had bilateral NAION.
  4
          A. Yes.
                                                                4
                                                                        A. Yes, but you can't combine these two
  5
          Q. And they enrolled patients based on a
                                                                5
                                                                     groups. Even though they have, it's interesting,
  6
       diagnosis of new NAION in one of their eyes, correct?
                                                                6
                                                                     but it's not meaningful, because they already had it
  7
          A. That's correct.
                                                                7
                                                                     when they came in, so you cannot say anything about
  8
          Q. And then they followed them up?
                                                                8
                                                                     incidence with that number the way you phrased it,
  9
          A. Yes.
                                                                9
                                                                     bilateral. It's true, it is a fact that they had
10
          Q. Okay. Eighty of the patients that they
                                                               10
                                                                     bilateral, but so what. It has no bearing on the
       recruited into the study, they were recruited based
11
                                                               11
                                                                     incidence number.
12
       on a NAION event in their second eve?
                                                               12
                                                                        Q. But Dr. Newman reports that of a hundred
13
          A. That's correct.
                                                               13
                                                                     and -- of four hundred and eighteen patients in the
14
          Q. So that 19 percent of the patients involved
                                                               14
                                                                     the study, one hundred and twenty-eight of them had
15
       in the study entered the study with bilateral NAION,
                                                               15
                                                                     bilateral NAION by the end of the study; that's what
16
       correct?
                                                               16
                                                                     she reports, correct?
17
          A. That's correct.
                                                               17
                                                                        A. No, not by the end of the study. Some of
18
          Q. And of the patients who enrolled in the
                                                              18
                                                                     them already had one eye beforehand. They don't
19
       study with one eye only affected, 14.7 percent of
                                                              19
                                                                     count for anything.
20
       those patients developed NAION during the course of
                                                              20
                                                                        Q. One hundred and eighty-eight of the
21
       follow-up in the study, correct?
                                                              21
                                                                     four hundred and eighteen patients in the study had
22
          A. That's correct also.
                                                              22
                                                                     bilateral NAION?
23
          Q. And when you look at the study population
                                                              23
                                                                        A. That's true.
24
       as a whole, at the end of the study she reports that
                                                               24
                                                                        Q. Okay.
25
       a hundred and twenty-eight of the four hundred and
                                                               25
                                                                        A. That is a statement of fact, but -
                                                 Page 71
                                                                                                               Page 73
       eighteen patients in the study, which is
  1
                                                                1
                                                                        Q. That's right. I've got --
       30.6 percent, had NAION in both eyes by the end of
  2
                                                                2
                                                                        A. - it has no bearing on the incidence
  3
       the study?
                                                                3
                                                                     number, so -
  4
          A. That's true, but some of them came with it.
                                                                4
                                                                           MS. LESKIN: Move to strike --
  5
       so they're lumping two groups that have nothing to do
                                                                5
                                                                        A. I just want to make sure you didn't combine
  6
       with each other.
                                                                     the apples and the oranges, because -
                                                                6
         Q. I'm just looking at the total number of
  7
                                                                7
                                                                           JUDGE BORG: Dr. Lee, the lawyers -- There
  8
       patients that had bilateral NAION by the end of the
                                                                8
                                                                     are certain rules here, and the lawyers can ask you
  9
       study regardless of when the onset was, because
                                                               9
                                                                     leading questions, and if you have an explanation --
10
       that --
                                                              10
                                                                           THE WITNESS: Yes.
11
         A. No, that's not legitimate.
                                                              11
                                                                           JUDGE BORG: -- the other attorney can ask
12
         O. Okav.
                                                              12
                                                                     you some questions later on --
13
         A. Because if you come into the study, and
                                                              13
                                                                           THE WITNESS: Okay.
14
       you already had it, that doesn't - You can't lump
                                                              14
                                                                           JUDGE BORG: -- if they wish to pursue
       that with the ones that developed it during the
15
                                                              15
                                                                     that.
       study period, because they already had it when they
16
                                                              16
                                                                           THE WITNESS: All right. I will be quiet
17
       entered into the study, so there's apples and
                                                              17
                                                                     then.
18
      oranges. You can't - You can't lump them together.
                                                              18
                                                                           JUDGE BORG: Thank you.
19
         Q. Okay.
                                                              19
                                                                        Q. And just to be clear, Dr. Lee, again,
20
         A. They cannot be used for incidence number,
                                                              20
                                                                     Dr. Newman, et al, reported that of the four hundred
21
       because they already came with it. Incidence is an
                                                                     and eighteen patients, one hundred and twenty-eight
                                                              21
22
      occurrence that occurs over a time period,
                                                              22
                                                                     of them had bilateral NAION, correct?
23
      prospectively.
                                                              23
                                                                        A. That part I agree with.
24
         Q. Okay.
                                                              24
                                                                       Q. Now, NAION we called nonarteritic, correct?
25
         A. Anybody that comes into the study with the
                                                              25
                                                                       A. Yes.
```

19 (Pages 70 to 73)

1	Page 74	·	Page 76
1	Q. And that's primarily to distinguish it	١,	
2	from a disorder known as arteritic anterior ischemic	1 2	biopsy?
3	optic neuropathy, right?	l	A. Normally several weeks.
4	A. Yes.	3	Q. Would you agree with me that the natural
5		4	history of NAION has been difficult to define?
1 .	Q. And arteritic anterior ischemic optic	5	A. No. We have the natural history now.
6	neuropathy is an inflammatory condition, correct?	6	Q. And when you say "now"
7	A. Yes.	7	A. Because the study was done to show the
8	Q. Also known as giant cell arteritis?	8	natural history.
9	A. Yes.	9	Q. And some of the known risk factors for
10	Q. And the primary method by which you would	10	NAION include age, correct?
11	distinguish between arteritic and nonarteritic is	11	A. Yes.
12	through a blood test, right, called ESR?	12	Q. Hypertension?
13	A. Well, there are symptoms, there are blood	13	A. Yes.
14	tests and a biopsy of the artery.	14	Q. Diabetes?
15	Q. Okay. And the symptoms would be pain in	15	A. Yes.
16	the pain in the jaw, correct?	16	Q. High cholesterol?
17	A. Headache, pain in your jaw, pain in your	17	A. Yes.
18	scalp (indicating).	18	Q. Smoking?
19	Q. Okay. But there are patients with	19	A. Yes.
20	arteritic who don't present with pain or headache,	20	Q. Basically those are all conditions that
21	correct?	21	affect the vasculature, correct?
22	A. True.	22	A. Yes.
23	Q. And the blood test you do is called ESR,	23	Q. And if someone is a vasculopath, in other
24	right?	24	words, they have an injury to their vascular system,
25	A. Yes.	25	they're at risk for NAION, is that right?
	Page 75		Page 77
1	Q. And that stands for and I'm going to	1	A. Yes.
2	mess up the pronunciation, and you'll correct me	2	Q. If a patient came into your office with a
3	erythrocyte sedimentation rate?	3	diagnosis of NAION, and he was over age fifty with a
4	A. That's correct.	4	history of hypertension, increased blood sugars, what
5	Q. Okay. And that basically measures the	5	would you say caused his NAION?
6	blood rate at which the red blood cells fall in a	6	MR. RICHARDS: Objection to form.
7	test tube in an hour?	7	JUDGE BORG: Overruled.
8	A. Yes.	8	You may answer.
وا	Q. And that's a nonspecific measurement of	9	A. There are predisposing conditions, and all
	inflammation in the system?	10	of the things you just mentioned are predisposing
110	annamamentus se usu u juturii	۳,	or the things you just incutioned are predisposing
10 11		11	
11.	A. Yes.	11 12	conditions.
11 12	A. Yes.Q. If an ESR is negative, is that conclusive	12	conditions. Q. Okay.
11 12 13	A. Yes.Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy?	12 13	conditions. Q. Okay. A. NAION is a multifactorial disease, so it
11 12 13 14	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. 	12 13 14	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other.
11 12 13 14 15	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. 	12 13 14 15	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office
11 12 13 14 15	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. 	12 13 14 15 16	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history,
11 12 13 14 15 16	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the 	12 13 14 15 16 17	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed
11 12 13 14 15 16 17	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the vessel of the temporal artery to see if it shows 	12 13 14 15 16 17	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed NAION, would you?
11 12 13 14 15 16 17 18	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the vessel of the temporal artery to see if it shows evidence of inflammation, correct? 	12 13 14 15 16 17 18 19	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed NAION, would you? MR. BECNEL: Objection. The hypothetical
11 12 13 14 15 16 17 18 19 20	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the vessel of the temporal artery to see if it shows evidence of inflammation, correct? A. Yes. 	12 13 14 15 16 17 18 19	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed NAION, would you? MR. BECNEL: Objection. The hypothetical is not appropriate. All of the factors are not
11 12 13 14 15 16 17 18 19 20 21	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the vessel of the temporal artery to see if it shows evidence of inflammation, correct? A. Yes. Q. If a patient is treated with steroids, 	12 13 14 15 16 17 18 19 20 21	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed NAION, would you? MR. BECNEL: Objection. The hypothetical is not appropriate. All of the factors are not there.
11 12 13 14 15 16 17 18 19 20 21	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the vessel of the temporal artery to see if it shows evidence of inflammation, correct? A. Yes. Q. If a patient is treated with steroids, does that affect the findings on a biopsy? 	12 13 14 15 16 17 18 19 20 21 22	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed NAION, would you? MR. BECNEL: Objection. The hypothetical is not appropriate. All of the factors are not there. JUDGE BORG: Overruled.
11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the vessel of the temporal artery to see if it shows evidence of inflammation, correct? A. Yes. Q. If a patient is treated with steroids, does that affect the findings on a biopsy? A. It might. 	12 13 14 15 16 17 18 19 20 21 22 23	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed NAION, would you? MR. BECNEL: Objection. The hypothetical is not appropriate. All of the factors are not there. JUDGE BORG: Overruled. Do you understand the question?
11 12 13 14 15 16 17 18 19 20 21	 A. Yes. Q. If an ESR is negative, is that conclusive evidence against arteritic ischemic optic neuropathy? A. No. Q. You also mentioned a biopsy can be done. A. Yes. Q. And that's where they take a piece of the vessel of the temporal artery to see if it shows evidence of inflammation, correct? A. Yes. Q. If a patient is treated with steroids, does that affect the findings on a biopsy? 	12 13 14 15 16 17 18 19 20 21 22	conditions. Q. Okay. A. NAION is a multifactorial disease, so it would be difficult to say one is more than the other. Q. Okay. But if someone came into your office with that history, and that was the entire history, you wouldn't be surprised that that person developed NAION, would you? MR. BECNEL: Objection. The hypothetical is not appropriate. All of the factors are not there. JUDGE BORG: Overruled.

20 (Pages 74 to 77)

	Page 78	Γ	Page 80
1	Q. Sure. If a patient came into your office	1	
2	over age fifty with a history of hypertension and a	2	of the American Journal of Ophthalmology, an
3	history of elevated blood sugars, and that was the	3	editorial is intended to be objective and
4	entire relevant medical history, would you be	1	dispassionate, right?
5	surprised that that patient had developed NAION?	4	A. It might contain the opinions of the
6	A. No.	5	author.
7		6	Q. Okay. But it's intended to be an objective
8	Q. And that's a pretty typical presentation of NAION, right?	7	assessment of the evidence in forming your opinion?
9		8	A. All articles are supposed to be an
10	MR. RICHARDS: Objection to form. She's	9	objective assessment.
11	saying that the typical presentation of NAION are	10	Q. You serve on the editorial board of the
1	is only the two examples she gave as a person who had	11	American Journal of Ophthalmology, right?
12	high blood sugar and high cholesterol, right?	12	A. Yes.
13	JUDGE BORG: Do you understand the	13	Q. And this editorial was written for this
14	question, and are you able to answer it?	14	journal, because Dr. Fraunfelder had published an
15	THE WITNESS: Yes.	15	article based on his review of the adverse event
16	JUDGE BORG: Overruled.	16	database, correct?
17	A. Typically has vasculopathic risk factors.	17	A. Yes.
18	The ones you mentioned are some, but not all of the	18	Q. Now, in your article, looking specifically
19	list of potential vasculopathic risk factors.	19	in the left-hand column of the first page of the
20	(Lee Exhibit 11 was marked for	20	article, you make reference to adverse effect reports
21	identification by Attorney Leskin.)	21	that have been submitted to the FDA?
22	Q. Okay. I'm going to mark as Exhibit 11	22	A. Yes.
23	(indicating) and hand to you an article entitled	23	Q. Did you personally go to the FDA web site
24	erectile dysfunction drugs and nonarteritic anterior	24	and locate those adverse event reports?
25	ischemic optic neuropathy written by Andrew G. Lee	25	A. Yes.
	Page 79		Page 81
1	and Nancy J. Newman from the American Journal of	1	Q. And what you found was as of May 18, 2005,
2	Ophthalmology, October 2005. I know you brought a	2	there were forty-three cases of ION reported after
3	copy of this article with you as well, Doctor.	3	PDE-5 use, correct PDE-5 inhibitor use, correct?
4	I take it you recognize this article?	4	A. Yes.
5	A. Yes.	5	Q. And not all of those were Viagra, right?
6	Q. And this is an article you wrote, correct?	6	A. That's correct.
7	A. I wrote this with Nancy Newman.	7	Q. Okay. And you know that sildenafil is
8	Q. Okay. And the American Journal of	8	Viagra, right?
9	Ophthalmology is a journal directed to	9	A. Yes.
10	ophthalmologists, correct?	10	Q. And tadalafil is Cialis?
11	A. Yes.	11	A. Okay.
12	Q. That's the intended audience of people	12	Q. Were you aware of that?
ء ۔ ا			A. Yes.
13	with expertise in the individual field, right?		
13 14	with expertise in the individual field, right? A. Yes.	13	
14	A. Yes.	14	Q. And vardenafil, you understand, is Levitra,
14 15	A. Yes. Q. And if you go to the last page of what	14 15	Q. And vardenafil, you understand, is Levitra, right?
14 15 16	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the	14 15 16	Q. And vardenafil, you understand, is Levitra, right?A. Yes.
14 15 16 17	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in?	14 15 16 17	 Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical
14 15 16 17 18	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in? A. (Witness complies.) I don't have the same	14 15 16 17 18	 Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical differences between those three drugs?
14 15 16 17 18 19	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in? A. (Witness complies.) I don't have the same as what you have.	14 15 16 17 18 19	 Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical differences between those three drugs? A. They have different half-lives and action.
14 15 16 17 18 19 20	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in? A. (Witness complies.) I don't have the same as what you have. Q. Oh. Never mind. Well, let me ask you	14 15 16 17 18 19	 Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical differences between those three drugs? A. They have different half-lives and action. Q. Now, after discussing the cases you wrote,
14 15 16 17 18 19 20	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in? A. (Witness complies.) I don't have the same as what you have. Q. Oh. Never mind. Well, let me ask you this. Your article was an editorial, correct?	14 15 16 17 18 19 20 21	 Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical differences between those three drugs? A. They have different half-lives and action. Q. Now, after discussing the cases you wrote, the FDA I'm looking at the bottom paragraph in
14 15 16 17 18 19 20 21	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in? A. (Witness complies.) I don't have the same as what you have. Q. Oh. Never mind. Well, let me ask you this. Your article was an editorial, correct? A. Yes.	14 15 16 17 18 19 20 21	 Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical differences between those three drugs? A. They have different half-lives and action. Q. Now, after discussing the cases you wrote, the FDA — I'm looking at the bottom paragraph in that left-hand column. You wrote, the FDA also
14 15 16 17 18 19 20 21 22 23	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in? A. (Witness complies.) I don't have the same as what you have. Q. Oh. Never mind. Well, let me ask you this. Your article was an editorial, correct? A. Yes. Q. And you were invited to write the article?	14 15 16 17 18 19 20 21 22 23	Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical differences between those three drugs? A. They have different half-lives and action. Q. Now, after discussing the cases you wrote, the FDA I'm looking at the bottom paragraph in that left-hand column. You wrote, the FDA also readily acknowledges that most, but not all, of these
14 15 16 17 18 19 20 21	A. Yes. Q. And if you go to the last page of what we've marked as Exhibit 11, you'll see That's the front cover of the journal that it appeared in? A. (Witness complies.) I don't have the same as what you have. Q. Oh. Never mind. Well, let me ask you this. Your article was an editorial, correct? A. Yes.	14 15 16 17 18 19 20 21	 Q. And vardenafil, you understand, is Levitra, right? A. Yes. Q. Okay. Are you aware of the chemical differences between those three drugs? A. They have different half-lives and action. Q. Now, after discussing the cases you wrote, the FDA — I'm looking at the bottom paragraph in that left-hand column. You wrote, the FDA also

21 (Pages 78 to 81)

1	Page 82		Page 84
1	parentheses, small, cup to disk ratio, quote, crowded	1	then it goes on. So are you asking if it's a correct
2	disk, age over fifty, diabetes, hypertension,	2	statement according to Pfizer or a correct statement
3	coronary artery disease, hyperlipidemia and smoking,	3	according to him personally?
4	right?	4	MS. LESKIN: That's not the question I
5	A. Yes.	5	asked.
6	Q. And that's consistent with your own review	6	MR. RICHARDS: Well, it's confusing.
7	of those adverse event reports, correct?	7	That's why I'm asking you to clarify.
8	A. Yes.	8	JUDGE BORG: Just Well, do we have a
وا	Q. And you went on to say, the FDA has been	9	question to the witness?
10	careful to state that they cannot currently draw a	10	MS. LESKIN: No.
11	conclusion regarding cause and effect but that they	11	JUDGE BORG: Okay.
1	continue to monitor the situation. Did I read that	12	MR. RICHARDS: No, she just asked him if
12		13	
13	correctly?		that was a correct statement, which she
14	A. Yes.	14	MS. LESKIN: No, I asked
15	Q. And then you wrote, although the case	15	MR. RICHARDS: which she's going down
16	reports to date suggest a possible association	16	a list of paragraphs saying is this a correct
17	between NAION and PDE-5 inhibitors, a causal	17	statement.
18	relationship has not been established conclusively.	18	JUDGE BORG: I understand what you're -
19	A. True.	19	MR. RICHARDS: I just want to make sure she
20	Q. And Dr. Fraunfelder, who's article is in	20	knows she's talking to Dr. Lee and not
21	the journal of that same issue, reached the same	21	JUDGE BORG: I understand what you're
22	conclusion, correct?	22	saying.
23	A. Yes.	23	Do you understand there's a question to
24	Q. And then you went on to write, according	24	you?
25	to Pfizer, there have been more than one hundred	25	THE WITNESS: Yes. She asked me if that
		1	Name of the second seco
	Page 83		Page 85
1	clinical studies of Viagra, more than thirteen	1	Page 85 was correct as written.
1 2		1 2	_
1	clinical studies of Viagra, more than thirteen	1	was correct as written.
2	clinical studies of Viagra, more than thirteen thousand patients, and there were no reported cases	2	was correct as written. JUDGE BORG: Okay.
2	clinical studies of Viagra, more than thirteen thousand patients, and there were no reported cases of NAION in these patients, right?	2 3	was correct as written. JUDGE BORG: Okay. A. Yes, to my knowledge. Q. Then you went on, going down to where we
2 3 4	clinical studies of Viagra, more than thirteen thousand patients, and there were no reported cases of NAION in these patients, right? A. True.	2 3 4	was correct as written. JUDGE BORG: Okay. A. Yes, to my knowledge.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	clinical studies of Viagra, more than thirteen thousand patients, and there were no reported cases of NAION in these patients, right? A. True. Q. And you don't have any information currently to contradict that, do you? A. No. Q. And to your knowledge that's still a correct statement, correct? A. Yes. Q. And then you said that there have been over 170 million sildenafil prescriptions given to 23 million men, up to one billion doses, and thus, even if NAION is related to sildenafil use, the rate of attack must be quite low. To your knowledge is that statement still true? A. Yes. Q. Then you continued on, spontaneous NAION is relatively common and is the most common acute optic neuropathy in patients over age fifty years. That's still a true statement, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	was correct as written. JUDGE BORG: Okay. A. Yes, to my knowledge. Q. Then you went on, going down to where we were, referring to the Johnson and Arnold study. Do you see that? A. Yes. Q. And Johnson and Arnold did a population-based study in Missouri and Los Angeles County and estimated an incidence — an annual incidence rate of 2.3 per hundred thousand for NAION, correct? A. Yes. Q. And that study was done in 1994, right — or published in 1994? A. Yes. Q. And then you refer to a study at the Mayo Clinic, correct? A. Yes. Q. And that's the Hattenhauer study? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	clinical studies of Viagra, more than thirteen thousand patients, and there were no reported cases of NAION in these patients, right? A. True. Q. And you don't have any information currently to contradict that, do you? A. No. Q. And to your knowledge that's still a correct statement, correct? A. Yes. Q. And then you said that there have been over 170 million sildenafil prescriptions given to 23 million men, up to one billion doses, and thus, even if NAION is related to sildenafil use, the rate of attack must be quite low. To your knowledge is that statement still true? A. Yes. Q. Then you continued on, spontaneous NAION is relatively common and is the most common acute optic neuropathy in patients over age fifty years. That's still a true statement, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	was correct as written. JUDGE BORG: Okay. A. Yes, to my knowledge. Q. Then you went on, going down to where we were, referring to the Johnson and Arnold study. Do you see that? A. Yes. Q. And Johnson and Arnold did a population-based study in Missouri and Los Angeles County and estimated an incidence — an annual incidence rate of 2.3 per hundred thousand for NAION, correct? A. Yes. Q. And that study was done in 1994, right — or published in 1994? A. Yes. Q. And then you refer to a study at the Mayo Clinic, correct? A. Yes. Q. And that's the Hattenhauer study? A. Yes. Q. And Hattenhauer reported an estimated
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	clinical studies of Viagra, more than thirteen thousand patients, and there were no reported cases of NAION in these patients, right? A. True. Q. And you don't have any information currently to contradict that, do you? A. No. Q. And to your knowledge that's still a correct statement, correct? A. Yes. Q. And then you said that there have been over 170 million sildenafil prescriptions given to 23 million men, up to one billion doses, and thus, even if NAION is related to sildenafil use, the rate of attack must be quite low. To your knowledge is that statement still true? A. Yes. Q. Then you continued on, spontaneous NAION is relatively common and is the most common acute optic neuropathy in patients over age fifty years. That's still a true statement, correct? A. Yes. MR. RICHARDS: I'd like to clarify.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	was correct as written. JUDGE BORG: Okay. A. Yes, to my knowledge. Q. Then you went on, going down to where we were, referring to the Johnson and Arnold study. Do you see that? A. Yes. Q. And Johnson and Arnold did a population-based study in Missouri and Los Angeles County and estimated an incidence — an annual incidence rate of 2.3 per hundred thousand for NAION, correct? A. Yes. Q. And that study was done in 1994, right — or published in 1994? A. Yes. Q. And then you refer to a study at the Mayo Clinic, correct? A. Yes. Q. And that's the Hattenhauer study? A. Yes. Q. And Hattenhauer reported an estimated annual incidence of 10.3 per hundred thousand,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	clinical studies of Viagra, more than thirteen thousand patients, and there were no reported cases of NAION in these patients, right? A. True. Q. And you don't have any information currently to contradict that, do you? A. No. Q. And to your knowledge that's still a correct statement, correct? A. Yes. Q. And then you said that there have been over 170 million sildenafil prescriptions given to 23 million men, up to one billion doses, and thus, even if NAION is related to sildenafil use, the rate of attack must be quite low. To your knowledge is that statement still true? A. Yes. Q. Then you continued on, spontaneous NAION is relatively common and is the most common acute optic neuropathy in patients over age fifty years. That's still a true statement, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	was correct as written. JUDGE BORG: Okay. A. Yes, to my knowledge. Q. Then you went on, going down to where we were, referring to the Johnson and Arnold study. Do you see that? A. Yes. Q. And Johnson and Arnold did a population-based study in Missouri and Los Angeles County and estimated an incidence — an annual incidence rate of 2.3 per hundred thousand for NAION, correct? A. Yes. Q. And that study was done in 1994, right — or published in 1994? A. Yes. Q. And then you refer to a study at the Mayo Clinic, correct? A. Yes. Q. And that's the Hattenhauer study? A. Yes. Q. And Hattenhauer reported an estimated

22 (Pages 82 to 85)

	Page 86		Page 88
1	Q. And that study was published in 1997,	1	spontaneous NAION are commonly noted upon awakening,
2	right?	2	perhaps as a result of nocturnal hypotension. That's
3	A. Yes.	3	Dr. Heyreh's theory, right?
4	Q. Since 1997 the population in the	4	A. Yes.
5	United States has gotten fatter and grayer, would	5	Q. It would, therefore continuing to
6	you agree with that?	6	read It would, therefore, not be unexpected for
7	A. Yes.	7	the timing of some spontaneous NAION cases to follow
8	Q. And you'll agree with me that as the	8	the use of sildenafil, a drug frequently used at
9	population gets older and heavier, diseases like	9	nighttime. And by "spontaneous NAION," you're
10	NAION increase in frequency?	10	referring to what we talked about earlier, your
11	A. Yes.	11	typical case of NAION in a vasculopath person,
12	Q. You go on in the next paragraph, and you	12	correct?
13	said, although the exact ages for all patients taking	13	A. Yes.
14	sildenafil is unknown, it is assumed that they are	14	Q. And you conclude that paragraph,
15	older aged and harbor vasculopathic risk factors for	15	recollection, selection and ascertainment bias might
16	both erectile dysfunction and NAION. Did I read that	16	also be at play among the retrospective cases
17	correctly?	17	reported to date, and the retrospective cases, those
18	A. Yes.	18	are the case reports you're referring to, right?
19	Q. And that's because the risk factors for	19	A. Yes.
20	erectile dysfunction overlap with the risk factors	20	Q. What is recollection bias?
21	for NAION, correct?	21	A. You tend to remember things that happen
22	A. Yes.	22	close to your vision loss better than you remember
23	Q. And that's vasculopaths, right?	23	things that are not close to your vision loss.
24	A. Yes.	24	Q. And what is selection bias?
25	Q. And you go on to say, thus, a certain	25	A. Selection bias is when you pick from a
	Page 87		Page 89
1	number, several hundred to perhaps a few thousand,	1	certain group of patients; like you don't include all
2	of spontaneous NAION events would be expected to	2	of them, you only pick the ones that complained.
3	occur each year in a population of 23 million	3	Q. And what is ascertainment bias?
4	older-aged men using sildenafil. Did I read that	4	A. That's the person collecting the data only
5	correctly?	5	collects specific types of data and doesn't collect
6	A. Yes.	6	all of the data, so you don't really know what the
7	Q. And that's because of the background rate		an of the data, so you don't reany know what the
		7	denominator of the number of people you're looking at
8	that would be expected in a population of older men,	7 8	denominator of the number of people you're looking at is.
9	that would be expected in a population of older men, right?	8 9	denominator of the number of people you're looking at is. Q. Turning to the end of your study your
9 10	that would be expected in a population of older men, right? A. Yes.	8 9 10	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or
9 10 11	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what	8 9 10 11	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to
9 10 11 12	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a	8 9 10 11 12	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or
9 10 11 12 13	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra?	8 9 10 11 12 13	denominator of the number of people you're looking at is. Q. Turning to the end of your study — your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that?
9 10 11 12 13	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it.	8 9 10 11 12 13	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes.
9 10 11 12 13 14 15	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it. Q. Okay. But the background rate is to be	8 9 10 11 12 13 14 15	denominator of the number of people you're looking at is. Q. Turning to the end of your study — your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes. Q. And as of October 2005 when you wrote this
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9 10 11 12 13 14 15 16	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it. Q. Okay. But the background rate is to be expected? A. Yes.	8 9 10 11 12 13 14 15 16	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes. Q. And as of October 2005 when you wrote this article, you did not know whether the association of NAION and Viagra and PDE-5 inhibitor use was
9 10 11 12 13 14 15 16 17	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it. Q. Okay. But the background rate is to be expected? A. Yes. Q. Okay. And you go on to say, in fact, some	8 9 10 11 12 13 14 15 16 17	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes. Q. And as of October 2005 when you wrote this article, you did not know whether the association of NAION and Viagra and PDE-5 inhibitor use was causal or coincidental, is that fair?
9 10 11 12 13 14 15 16 17 18	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it. Q. Okay. But the background rate is to be expected? A. Yes. Q. Okay. And you go on to say, in fact, some of these events, depending on the frequency of use	8 9 10 11 12 13 14 15 16 17 18	denominator of the number of people you're looking at is. Q. Turning to the end of your study — your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes. Q. And as of October 2005 when you wrote this article, you did not know whether the association of NAION and Viagra — and PDE-5 inhibitor use was causal or coincidental, is that fair? A. Yes.
9 10 11 12 13 14 15 16 17 18 19 20	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it. Q. Okay. But the background rate is to be expected? A. Yes. Q. Okay. And you go on to say, in fact, some of these events, depending on the frequency of use of the drug, would fall by chance alone within six to	8 9 10 11 12 13 14 15 16 17 18 19 20	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes. Q. And as of October 2005 when you wrote this article, you did not know whether the association of NAION and Viagra and PDE-5 inhibitor use was causal or coincidental, is that fair? A. Yes. Q. Now, in the article you make reference to
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9 10 11 12 13 14 15 16 17 18 19 20 21	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it. Q. Okay. But the background rate is to be expected? A. Yes. Q. Okay. And you go on to say, in fact, some of these events, depending on the frequency of use of the drug, would fall by chance alone within six to thirty-six hours of taking sildenafil, right? A. True.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes. Q. And as of October 2005 when you wrote this article, you did not know whether the association of NAION and Viagra and PDE-5 inhibitor use was causal or coincidental, is that fair? A. Yes. Q. Now, in the article you make reference to the FDA alert that was issued, right? A. Yes.
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9 10 11 12 13 14 15 16 17 18 19 20 21	that would be expected in a population of older men, right? A. Yes. Q. And that has nothing to do with what medication — whether or not they are taking a medication like Viagra? A. It might have something to do with it. Q. Okay. But the background rate is to be expected? A. Yes. Q. Okay. And you go on to say, in fact, some of these events, depending on the frequency of use of the drug, would fall by chance alone within six to thirty-six hours of taking sildenafil, right? A. True.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	denominator of the number of people you're looking at is. Q. Turning to the end of your study your article, you wrote, further prospective or case-control data will be helpful in the future to determine if the association of NAION is causal or coincidental. Do you see that? A. Yes. Q. And as of October 2005 when you wrote this article, you did not know whether the association of NAION and Viagra and PDE-5 inhibitor use was causal or coincidental, is that fair? A. Yes. Q. Now, in the article you make reference to the FDA alert that was issued, right? A. Yes.

23 (Pages 86 to 89)

Page 90 Page 92 the FDA alert issued July 2005. Is this the alert 1 1 Do you need the question repeated? 2 you're referring to? 2 MS. LESKIN: I think so. 3 A. Yes. 3 Can you repeat the question, please? 4 Q. And you'll see the middle of page 1 has 4 MR. BECNEL: And, Judge, I'd like to make 5 in bold what the actual FDA alert is, including 5 that letter to the -- to the Congress and the Obama information about new labeling for the PDE-5 6 6 administration part of the record as an exhibit. 7 inhibitor drugs, right? 7 JUDGE BORG: Well, it isn't here. 8 A. Yes. 8 I presume that you can present that to the court at Q. And at the bottom, the last two sentences 9 9 the appropriate time. 10 of that paragraph say, we cannot currently draw a 10 MR. BECNEL: Well, I would just like to 11 conclusion of cause and effect. FDA will continue to 11 get a number on it so I can do that, but I can fax 12 evaluate the issue. Did I read that correctly? 12 it there in two minutes or e-mail it. 13 A. Yes. 13 JUDGE BORG: Well, there's no way -14 Q. And that's what you were referring to in 14 MS. LESKIN: Your Honor, any exhibits that 15 your article when you quote the FDA -- when you said 15 are entered into the record should be done by counsel 16 they were careful to state that they cannot currently 16 at the time when they are asking questions, not in draw a conclusion? 17 17 the middle of my examination. 18 A. Yes. 18 MR. BECNEL: Well, we've never had fraud 19 O. And that's consistent with the conclusion 19 before by scientists at the FDA. JUDGE BORG: Okay. Court Reporter, will 20 you wrote when you said a causal relationship has not 20 been established conclusively, right? 21 21 you read the question back, please? 22 A. That's correct. 22 Q. Let me ask the question again. Dr. Lee, Q. And the FDA underneath that paragraph 23 23 looking at Exhibit 12 underneath the FDA alert, the 24 wrote, this information reflects FDA's current 24 FDA wrote, this information reflects FDA's current 25 analysis of data available to FDA concerning this 25 analysis of data available to FDA concerning this Page 91 Page 93 1 drug. FDA intends to update this sheet when 1 drug. FDA intends to update this sheet when 2 additional information or analyses become available. 2 additional information or analyses become available. Sitting here today, are you aware of any updates that 3 Are you aware of any additional information issued 3 4 by the FDA on this issue -- on this question? 4 the FDA has issued to this alert? 5 A. I think there are more cases now. 5 A. No. 6 Q. Okay. But has the FDA changed its analysis 6 Q. If you can look at your CV. We marked that 7 of the data? 7 as Exhibit 1. 8 A. No. 8 A. (Witness complies.) Yes. 9 MR. BECNEL: Let me enter an objection. 9 Q. And if you can look at page 40. If counsel looks at what the scientists for the FDA 10 10 A. (Witness complies.) Yes. 11 have published to the Obama administration --11 Q. If you look at number 119 on the list, do 12 MS. LESKIN: Your Honor --12 you see that you are co-chair of the Sally Letson 13 MR. BECNEL: Wait a minute. I'm entering 13 symposium? 14 an objection. 14 A. Yes. 15 MS. LESKIN: The only objection is to form 15 (Lee Exhibits 13 and 14 were marked for 16 at this time. 16 identification by Attorney Leskin.) 17 MR. BECNEL: But, wait, my objection is 17 Q. I'm going to mark as Exhibit 13 a DVD. which I will -- DVD set, which I will retain custody 18 specific, because it involves fraud and the FDA. 18 Top scientists have notified the Obama administration 19 of, but we'll also mark as Exhibit 14 a copy of the 19 20 that they have been inhibited by drug and medical 20 cover of the box. So let me hand you Exhibit 14 21 manufacturers, and, in fact, if you look at the 21 (indicating), and you can compare that to the New York Times today, it's fully documented, because 22 22 original box that's Exhibit 13 (indicating), Doctor, 23 it just became public. 23 and make sure that it's an original copy. Is that JUDGE BORG: Okay. The objection is 24 24 correct? 25 overruled. 25 A. Yes.

24 (Pages 90 to 93)

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Page 94
                                                                                                              Page 96
  1
          O. And Exhibit 13 is a DVD set of the
                                                               1
                                                                          JUDGE BORG: Here's the deal. The
  2
       presentations from the Sally Letson Foundation
                                                                     objection is overruled. Your objection is preserved.
                                                               2
  3
       symposium, correct --
                                                               3
                                                                     You make it to the court when and if that opportunity
  4
          A. Yes.
                                                               4
                                                                     arises, but for purposes of the deposition it's going
  5
          Q. -- that you co-chaired?
                                                               5
                                                                     to be in the record.
  6
          A. Yes.
                                                               6
                                                                          (Lee Exhibit 15 was marked for
  7
          Q. And if you can turn to the table of
                                                               7
                                                                     identification by Attorney Leskin.)
  8
       contents, which is on the back of the DVD box, which
                                                                          MS. LESKIN: And just for the record, I'm
                                                               8
  9
       is also the second page of Exhibit 14, I'll direct
                                                               9
                                                                    marking as Exhibit 15 an e-mail dated January 6th,
 10
       your attention to disk six.
                                                              10
                                                                    2009, from me to Neil Overholtz, Danny Becnel and
 11
          A. (Witness complies.) Yes.
                                                              11
                                                                    Randy Hopper, copied to Judge Borg, Mr. Slonim from
 12
          Q. And chapter four is a presentation called
                                                              12
                                                                    my office, that identifies the documents pursuant to
       Viagra and vision loss: Does sex make you blind?
13
                                                              13
                                                                    the court order, and that includes all documents
14
       Do you see that?
                                                              14
                                                                    attached to or referenced in each witness's
15
          A. Yes.
                                                              15
                                                                    curriculum vitae, including any articles and/or
          Q. You and Dr. Sadun gave that presentation,
16
                                                              16
                                                                    presentations by the witness. So we'll make that as
 17
       correct?
                                                              17
                                                                    an exhibit.
18
          A. Yes.
                                                              18
                                                                          MR. RICHARDS: That's Exhibit 14?
19
          Q. I'd like to take seven and a half minutes
                                                              19
                                                                          MS. LESKIN: That's Exhibit 15.
       and show you -- We've put that DVD into the DVD
20
                                                              20
                                                                          MR. RICHARDS: 15.
21
       player. If you can direct your attention to the
                                                              21
                                                                       Q. And that's you giving that presentation,
22
       monitor.
                                                              22
                                                                    correct, Dr. Lee?
23
             (The DVD was played at this time.)
                                                              23
                                                                       A. That's right, but you only showed half.
24
             MR. BECNEL: This is Daniel Becnel. I'm
                                                              24
                                                                       Q. But that was the entire presentation you
25
       going to object to the use of a video which does not
                                                              25
                                                                    gave, correct?
                                                Page 95
                                                                                                              Page 97
  1
       contain a question.
                                                               1
                                                                       A. Correct, but you did not show the pro --
             JUDGE BORG: Well --
  2
                                                               2
                                                                       Q. The other half is given by Dr. Sadun?
  3
             MS. LESKIN: Pause it.
                                                                          MR. BECNEL: Your Honor, that's the problem
                                                               3
  4
             (The DVD was paused at this time.)
                                                               4
                                                                    with what she's doing. She's editing and then asking
  5
             JUDGE BORG: Yeah, hang on. I presume --
                                                               5
                                                                    questions with the witness telling her she only
       Well, that's a fair question. Are there going to be
  6
                                                               6
                                                                    showed half of what was done.
  7
       questions that follow this video?
                                                               7
                                                                          MS. LESKIN: Can I ask --
             MS. LESKIN: There will be plenty of
  8
                                                               8
                                                                          JUDGE BORG: Well, she's asking specific
  9
       questions following the video.
                                                               9
                                                                    questions. The objection is overruled. You can ask
10
             JUDGE BORG: Okay. Please proceed.
                                                              10
                                                                    him questions when this concludes -- or she
11
             MS. LESKIN: Turn the volume up, please.
                                                              11
                                                                    concludes.
12
             MR. BECNEL: Object to the special masses
                                                              12
                                                                          Go ahead with your questions.
13
       ruling on the use of videos in a deposition.
                                                              13
                                                                          MS. LESKIN: Let me rephrase.
14
            MS. LESKIN: Go ahead.
                                                              14
                                                                       Q. This presentation was done in two halves,
15
             JUDGE BORG: Okay. Proceed.
                                                              15
                                                                    correct?
16
             (The DVD was played at this time.)
                                                              16
                                                                       A. That's correct.
17
             MS. LESKIN: I know we have to change tapes
                                                             17
                                                                       Q. And Dr. Sadun gave the first half, correct?
       before we do. Let me just ask you one question.
18
                                                             18
                                                                       A. Yes.
19
      That was you giving that presentation, correct?
                                                             19
                                                                       Q. And you gave the second half, correct?
20
             MR. RICHARDS: I would object to the
                                                             20
                                                                       A. Yes. This was the format of the symposium
21
       introduction of the tape. I don't know if we ever
                                                             21
                                                                    section.
22
      got any notice of the documents that they planned on
                                                              22
                                                                       Q. Okay. And you gave the second half,
23
      using for this deposition, and maybe counsel can
                                                             23
                                                                    correct?
24
      confirm that, whether we did or not, as required by
                                                             24
                                                                       A. That's correct.
25
      the order.
                                                             25
                                                                       Q. Okay. And I showed the entire presentation
```

25 (Pages 94 to 97)

]	Page 98		Page 100
1	that you gave, correct?	1	symposium: Neuroophthalmology update, reporting on
2	A. But you only showed the con half.	2	September 14th to 16th, 2006, Ottawa, Ontario,
3	Q. I showed the presentation that you gave,	3	Canada, written by you, Fiona Costello and W. Bruce
4	is that correct?	4	Jackson, right?
5	MR. BECNEL: Objection. She can't ask the	5	A. Yes.
6	same question after she got an answer.	6	Q. And this is the meeting report that you
7	JUDGE BORG: No, she didn't get an answer.	7	prepared following the program that you co-chaired,
8	The objection's overruled.	8	correct?
وا	You can repeat the question,	9	A. That's correct.
10	Ms. Court Reporter.	10	Q. And this was published in What's the
11	(Requested portion of record was read.)	11	name of this journal? Expert Review of
12	A. That's correct.	12	Ophthalmology?
13	MS. LESKIN: Okay. We need to change the	13	A. Yes.
14	tape. Let's take a break.	14	Q. Okay. And you wrote on the first paragraph
15	JUDGE BORG: Time, Mr. Videographer?	15	of the article that there were six hundred and
16	THE VIDEOGRAPHER: 3:04.	16	seventy-five paid attendees?
17	(A brief recess was taken.)	17	A. Yes.
18	JUDGE BORG: Start time?	18	Q. That it was the highest ever attendance for
19	THE VIDEOGRAPHER: 3:10 - or 3:11.	19	one of these meetings, right?
20	I'm sorry.	20	A. Yes.
21	JUDGE BORG: Okay.	21	Q. Now, when you said that there was a
22	THE VIDEOGRAPHER: On the record.	22	that the biological mechanism for NAION in ED agents
23	Q. (By Ms. Leskin) Now, Dr. Lee, referring,	23	was weak, that was because there are no studies
24	again, to the presentation we just watched, you went	24	showing that Viagra or any of the PDE-5 inhibitors
25	through the whole Bradford Hill criteria, right?	25	caused a decrease in blood flow to the optic nerve,
		 	
1	Page 99		Page 101
1		1	Page 101
1 2	A. Yes.	1 2	right?
1	A. Yes.Q. And you stated that there's a weak but	l	right? MR. RICHARDS: Objection to form. I'm not
2	A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right?	2	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies.
2	A. Yes.Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right?A. That's right.	2 3	right? MR. RICHARDS: Objection to form. I'm not
2 3 4	A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right?	2 3 4	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the
2 3 4 5	 A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right? A. That's right. Q. That's what you stated? A. Yes. 	2 3 4 5	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the question? THE WITNESS: Yes.
2 3 4 5 6	 A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right? A. That's right. Q. That's what you stated? A. Yes. Q. And you were referring to the blood 	2 3 4 5 6	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the question?
2 3 4 5 6 7	 A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right? A. That's right. Q. That's what you stated? A. Yes. 	2 3 4 5 6 7	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the question? THE WITNESS: Yes. JUDGE BORG: Are you able to answer it? THE WITNESS: Yes.
2 3 4 5 6 7 8	 A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right? A. That's right. Q. That's what you stated? A. Yes. Q. And you were referring to the blood pressure effect of drugs like sildenafil, correct? 	2 3 4 5 6 7 8	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the question? THE WITNESS: Yes. JUDGE BORG: Are you able to answer it?
2 3 4 5 6 7 8 9	 A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right? A. That's right. Q. That's what you stated? A. Yes. Q. And you were referring to the blood pressure effect of drugs like sildenafil, correct? A. Yes. 	2 3 4 5 6 7 8	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the question? THE WITNESS: Yes. JUDGE BORG: Are you able to answer it? THE WITNESS: Yes. JUDGE BORG: Okay. Proceed.
2 3 4 5 6 7 8 9	 A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right? A. That's right. Q. That's what you stated? A. Yes. Q. And you were referring to the blood pressure effect of drugs like sildenafil, correct? A. Yes. Q. Okay. How much does Viagra lower blood 	2 3 4 5 6 7 8 9	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the question? THE WITNESS: Yes. JUDGE BORG: Are you able to answer it? THE WITNESS: Yes. JUDGE BORG: Okay. Proceed. A. The link is with hypotension, and then you
2 3 4 5 6 7 8 9 10	 A. Yes. Q. And you stated that there's a weak but biologically plausible mechanism for NAION, right? A. That's right. Q. That's what you stated? A. Yes. Q. And you were referring to the blood pressure effect of drugs like sildenafil, correct? A. Yes. Q. Okay. How much does Viagra lower blood pressure? 	2 3 4 5 6 7 8 9 10	right? MR. RICHARDS: Objection to form. I'm not sure what she means by studies. JUDGE BORG: Do you understand the question? THE WITNESS: Yes. JUDGE BORG: Are you able to answer it? THE WITNESS: Yes. JUDGE BORG: Okay. Proceed. A. The link is with hypotension, and then you have to make another link to the hypoperfusion of the
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	Page 102		Page 104
1	Q. Have you reviewed the studies that attempt	1	following Viagra use. Okay?
2	to measure blood flow following sildenafil use in the	2	A. Yes.
3	optic nerve? Strike that. Have you reviewed the	3	Q. And have you reviewed studies looking at
4	studies that attempt to measure ocular blood flow	4	ocular blood flow in any vessel in the eye following
5	following Viagra use?	5	Viagra use?
6	A. Not Viagra use per se, but just looking at	6	-
7	ocular blood flow, many, many papers have tried to do	7	A. I know these exist, but I have not reviewed
8	this. It's quite difficult.	j	them carefully.
9	Q. Okay. But have you reviewed any of the	8	Q. And are you able to identify any study that
10	articles that specifically look at the effect of	9	has shown that sildenafil causes a decrease in blood
11	sildenafil or Viagra on ocular blood flow?	10	flow to any vessel in the eye?
12	A. No, but that would be very hard to do,	11	A. That's what I was alluding to when I said
13	because the ocular blood flow studies in general are	12	the link is weak in the presentation that you showed.
14	not that good.	13	It's not the hypotension. The hypotension part we
15	•	14	know about, because we have measurements of blood
	Q. Let me ask you this. Are you aware of any	15	pressure. What we don't have is the linkage to the
16 17	study that demonstrates that Viagra causes a drop in	16	ocular blood flow. That's where the - The link is
1	blood flow to the optic nerve?	17	weak there.
18 19	A. The weak - The link is weak, because we	18	Q. I just want to make sure you answered my
	cannot establish ocular blood flow in anything, let	19	question. Are you aware and that's the only
20	alone in erectile dysfunction agents. The study	20	question that I'm asking Are you aware of any
21	technologies for looking at ocular blood flow are not	21	study that shows a decrease of blood flow in any
22	good enough to answer this question in the arteries	22	vessel following Viagra use?
23	that you're asking about.	23	A. No.
24	Q. Just so I understand you, are you saying	24	Q. Now, you use this term hypotension.
25	that ocular blood flow in NAION strike that	25	A. Yes.
	Page 103		Page 105
1	that ocular blood flow with sildenafil has not been	1	Q. How are you defining hypotension when you
2	studied?	2	use it?
3	A. No. Ocular blood flow is extremely	3	A. Hypo means low. Tension means pressure.
4	difficult to study in the optic nerve in the blood	4	Hypotension is low pressure. There is no
5	supply that we're talking about, let alone in	5	standardized accepted definition of hypotension.
6	sildenafil. If you want to make it specific for	6	Most people would say a 20 percent reduction in your
7	erectile dysfunction agents, fine, but if you just	7	baseline is hypotension, but it's hypotension even
8	say what is the status of ocular blood flow imaging	8	if it's 2 millimeters or 3 millimeters. It's, by
9	right now, not good enough to answer any questions	9	definition, lower than your norm. But there's no
10	about this particular blood supply, ischemic optic	10	standard definition for clinically significant
11	neuropathy.	11	hypotension.
12	Q. Okay. And I appreciate the clarification	12	Q. And that's the distinction I want to talk
1.3	that you made about this particular blood supply.	13	about I wanted to clarify. When you use
14	A. Yes.	14	hypotension, you're referring to any decrease in
15	Q. And my question originally was a little	15	blood pressure, correct?
16	broader than that. Are you aware that there have	16	A. That's correct.
17	been studies of ocular blood flow in other vessels	17	Q. You don't mean it to be a clinically
18	following Viagra use?	18	significant decrease in blood pressure?
19	A. Yes, but	19	A. It may or may not be a clinically
20	Q. And have you reviewed	20	significant hypotension. Hypo just means it's lower,
)	A. — in this supply, no, because the	21	so when I say hypotension, I simply mean lower
21			
21 22		22	Dressure.
	technology isn't good enough to answer the question.	22 23	pressure. O. Okay. And so when you say that the
22	technology isn't good enough to answer the question. Q. Okay. I understand that. I understand	23	Q. Okay. And so when you say that the
22 23	technology isn't good enough to answer the question.		-

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١,	Page 106		Page 108
1	reduction in blood pressure?	1	the blood vessels. There's no data.
2	A. Yes, and that we know is true.	2	Q. Going back to your presentation, you said
3	Q. Okay. Are you aware of any studies that	3	that the report - in the reported cases for Viagra
4	demonstrate that Viagra causes a decrease in blood	4	it's not possible to rule out chance as a cause, and
- 5	flow to any part of the body?	5	that's consistent with what you wrote in your article
6	A. This can only be inferred from the	6	with Dr. Newman, right?
7	hypotension. I am not aware of any studies for	7	A. Yes. Nothing in that presentation is
8	specific blood flow rates to specific organs, but I	8	inconsistent with what I wrote in the editorial.
9	would not be looking at that literature. I can only	9	They're the same data.
10	comment on the optic nerve.	10	Q. And that's because ED drugs are used in
11	Q. And when you say infer, you're	11	vasculopathic males, as we talked about?
12	hypothesizing that there is that link, but you don't	12	A. Yes, we went over that before.
13	have any studies that show that, correct?	13	Q. You also talked said in your
14	A. That's correct. That is where the linkage	14	presentation You made reference to the weak
15	is weak.	15	temporal relationship between cause and effect.
16	Q. You've used this term weak. Is there any	16	A. Of the forty-three cases that were in the
17	evidence of that link between hypo a drop in blood	17	database.
18	pressure and the hypoperfusion you're talking about?	18	Q. Correct.
19	A. Yes.	19	A. Yeah.
20	Q. And what evidence are you referring to?	20	Q. And you said that that's inconsistent with
21	A. This is the basis of ischemic optic	21	the known pharmacokinetics and the half-life, right?
22	neuropathy. We know if the blood pressure goes too	22	A. Many of the cases reported in the database
23	low or if the oxygenation is too low, that you'll get	23	were not consistent with what we know about the onset
24	ischemic optic neuropathy. What we don't know is	24	of action of these drugs. So, for instance, if
25	proving it with a blood flow measurement in the blood	25	someone had their ischemic optic neuropathy a week
	Page 107		Page 109
1	vessels that we're talking about, but we can see the	1	1-4
2			later after the drug was administered, it would be
ı	result, ischemic optic neuropathy. So hypoperfusion	2	hard to accept that based on the pharmacokinetics of
3	is the end result after ischemic optic neuropathy.	2 3	hard to accept that based on the pharmacokinetics of the drug —
3 4	is the end result after ischemic optic neuropathy. Hypotension is one of those mechanisms that we listed	2 3 4	hard to accept that based on the pharmacokinetics of the drug Q. Right.
3 4 5	is the end result after ischemic optic neuropathy. Hypotension is one of those mechanisms that we listed in the multifactorial list.	2 3 4 5	hard to accept that based on the pharmacokinetics of the drug — Q. Right. A. — so, in my opinion, many of those
3 4 5 6	is the end result after ischemic optic neuropathy. Hypotension is one of those mechanisms that we listed in the multifactorial list. Q. But when we're referring to the erectile	2 3 4 5 6	hard to accept that based on the pharmacokinetics of the drug — Q. Right. A. — so, in my opinion, many of those forty-three cases would have to be thrown away.
3 4 5 6 7	is the end result after ischemic optic neuropathy. Hypotension is one of those mechanisms that we listed in the multifactorial list. Q. But when we're referring to the erectile dysfunction drugs, the PDE-5 inhibitors, you told me	2 3 4 5 6 7	hard to accept that based on the pharmacokinetics of the drug — Q. Right. A. — so, in my opinion, many of those forty-three cases would have to be thrown away. Q. And as you put up on the screen during your
3 4 5 6 7 8	is the end result after ischemic optic neuropathy. Hypotension is one of those mechanisms that we listed in the multifactorial list. Q. But when we're referring to the erectile dysfunction drugs, the PDE-5 inhibitors, you told me that when you said that there was a weak link	2 3 4 5 6 7 8	hard to accept that based on the pharmacokinetics of the drug — Q. Right. A. — so, in my opinion, many of those forty-three cases would have to be thrown away. Q. And as you put up on the screen during your presentation, the half-life of the drug is four
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	is the end result after ischemic optic neuropathy. Hypotension is one of those mechanisms that we listed in the multifactorial list. Q. But when we're referring to the erectile dysfunction drugs, the PDE-5 inhibitors, you told me that when you said that there was a weak link A. Weak link. Q you were referring to the lack of studies between showing a decrease a Strike that. You told me that the weak link you were referring to on the erectile dysfunction agents referred to the lack of studies on blood flow to the optic nerve? A. That's correct. Q. Do I understand that correctly? A. That's correct. Q. Okay. A. We have a strong link on hypotension Q. Meaning a drop in blood pressure.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	hard to accept that based on the pharmacokinetics of the drug — Q. Right. A. — so, in my opinion, many of those forty-three cases would have to be thrown away. Q. And as you put up on the screen during your presentation, the half-life of the drug is four hours, right? A. It's quite short. That's why they take it pretty close to the event. Q. It's four hours is the half-life, right? A. Yes — Q. Okay. A. — and then there's a peak. Q. And the peak plasma level occurs two hours after you take the drug, right? A. Exactly. You have a very short window to get going. Q. And you're aware that the clinical effect is greatest with the drug in that first four hours
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28 (Pages 106 to 109)

	Page 110	T	Page 112
1	the causal relationship, correct?	1	Q. What rechallenge cases other rechallenge
2	A. There is now, but at that time it wasn't	2	cases have been published since your presentation?
3	ready.	3	A. I don't have those references. I know they
4	Q. Okay. And what animal model are you	4	exist.
5	referring to?	5	Q. Okay. You're aware that we are here to
6	A. There's a rat model.	6	take your deposition to learn the bases of your
7	Q. Okay. And who published on that?	7	opinion?
8	A. Neil Miller.	8	A. Yes.
9	Q. And is that where they took the vessels and	وا	Q. And you're aware that you're required to
10	obliterated the vessel?	10	provide us the bases of your opinion?
11	A. Yes.	111	A. Yes.
12	Q. And is that a good animal model for an	12	Q. Okay. So sitting here today are you able
13	assessment of the cause of NAION?	13	to identify what other rechallenge cases exist?
14	A. No.	14	A. No. I know they —
15	Q. It's an assessment for the natural	15	MR. OVERHOLTZ: I'm going to object to
16	progression of the disease, correct?	16	counsel trying to intimidate the witness to believe
17	A. Or treatment.	17	that he has some duty to produce documents from which
1.8	Q. Okay. But you couldn't use that rat model	18	he's testified he has personal knowledge.
19	to assess, for example, whether Viagra causes NAION?	19	JUDGE BORG: Do you understand the
20	A. No.	20	question -
21	Q. Are you aware of any other animal model	21	THE WITNESS: Yes.
22	that exists that could make that assessment?	22	JUDGE BORG: Dr. Lee? Are you able to
23	A. No.	23	answer it?
24	 Q. Have you reviewed any of the animal studies 	24	THE WITNESS: Yes.
25	that were conducted during the development of Viagra?	25	JUDGE BORG: The objection is overruled.
	Page 111		Page 113
1	A. No.	1	MS. LESKIN: Your Honor, I would just
2	Q. Since you gave your presentation are you	2	indicate that the court's order limits the objecting
3	aware of any dose response data that has been	3	attorneys to one attorney, and Mr. Richards is here
4	developed?	4	doing a fine job. Mr. Becnel and Mr. Overholtz have
5	A. There's no dose response data.	5	all raised objections.
6	Q. Now, you also said during your presentation	6	JUDGE BORG: What do you guys say to that?
7	that there's no effect specificity with regard to the	7	MR. OVERHOLTZ: I think the order says two,
8	NAION in the Viagra cases, right?	8	but I'm fine to live by the rules, whatever they are.
9	A. That's correct.	9	JUDGE BORG: All right. Then we're going
		1	Jobde Bokd. All fight. Their were going
10	Q. In other words, the NAION that a patient	10	to have Mr. Richards make the objections.
11	who takes Viagra gets looks the same as any other	10 11	to have Mr. Richards make the objections. MR. RICHARDS: Mr. Richards.
11 12	who takes Viagra gets looks the same as any other case of NAION, right?	11 12	to have Mr. Richards make the objections. MR. RICHARDS: Mr. Richards. JUDGE BORG: Mr. Richards. I'm sorry.
11 12 13	who takes Viagra gets looks the same as any other case of NAION, right? A. Yes.	11 12 13	to have Mr. Richards make the objections. MR. RICHARDS: Mr. Richards. JUDGE BORG: Mr. Richards. I'm sorry. Forgive me.
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29 (Pages 110 to 113)

Page 114 Page 116 1 dysfunction agents in the controls, correct? 1 O. Are you aware of any other evidence. 2 2 A. Yes. besides his deposition testimony, that Mr. Martin 3 3 Q. In other words, that study, in your took Viagra in close temporal relationship before he 4 4 opinion, did not establish an increased risk among experienced visual symptoms? 5 5 patients taking erectile dysfunction agents, correct? A. We have the medical records that are in 6 A. That's correct. 6 close temporal relationship to what the patient 7 MR. RICHARDS: Objection, form. 7 testified. The ischemic optic neuropathy was 8 THE WITNESS: Sorry. 8 diagnosed within the parameter - the time parameters 9 JUDGE BORG: What's that? I'm sorry. 9 that he stated in his deposition. 10 10 THE WITNESS: He objected. Q. Okay. But, again, let me just be clear on JUDGE BORG: Yeah. Oh, I need to -11 what my question is. Other than the deposition 11 Got you. Do you understand the question, and are 12 12 testimony of Mr. Martin and his wife, what - is 13 you able to answer it? 13 there any other evidence that you're relying on that 14 THE WITNESS: I do. 14 Mr. Martin took Viagra before his -- the on --15 immediately before the onset of his visual symptoms? JUDGE BORG: It's overruled. 15 16 MR. RICHARDS: Objection to form. He just 16 You may answer. 17 A. They did not find an association. 17 testified that he relied upon the medical records in 18 Q. Since you gave -- I'll strike -- Let me 18 proximity to his claimed ingestion as a basis also. start again. Since you published your article with 19 JUDGE BORG: I understand the objection. 19 20 20 Dr. Newman and since you gave this presentation at Do you understand the question, Dr. Lee? 21 the Sally Letson symposium is there any new data 21 THE WITNESS: Yes. 22 regarding the association -- regarding the 22 JUDGE BORG: And are you able to answer it? 23 relationship between Viagra and NAION that you are 23 THE WITNESS: Yes. 24 24 relying on in this case? JUDGE BORG: It's overruled. 25 A. Not that I'm relying upon. 25 A. The medical record and the patient's Page 115 Page 117 Q. I want to turn to your expert report. 1 1 testimony. 2 2 We've marked that as Exhibit 6 previously. Do you Q. Okay. Show me the medical record you rely 3 3 have that in front of you? on that shows that Mr. Martin took Viagra the night 4 A. (Witness complies.) Yes, I do. 4 before the onset of his visual symptoms. 5 5 Q. Okay. Now, you gave the opinion in this A. We only have - For that question we only 6 report that the use of sildenafil was a significant 6 have the patient's testimony. 7 precipitating factor for bilateral rapidly sequential 7 Q. Okay. That's why I wanted to clarify. 8 NAJON, right? 8 A. And for the medical record it's the listing 9 9 A. Yes. of his medicines, whether he listed - sometimes 10 Q. Okay. And the first key factor that you 10 listed and sometimes not. 11 identified is the close temporal relationship between 11 Q. Okay. So the only evidence that you're 12 the drug ingestion and the visual loss, less than 12 relying upon that Mr. Martin took Viagra the night 13 twenty-four hours, right? 13 before the onset of his visual symptoms is his 14 A. Yes. 14 testimony and Mrs. Martin's testimony, is that 15 Q. Okay. What did -- and then -- What did 15 correct? 16 you rely on to establish that there was, in fact, a 16 A. Yes. 17 close temporal relationship between Mr. Martin's 17 Q. I want you to assume for a moment that 18 ingestion of Viagra and the onset of his visual loss? 18 Mr. Martin did not take Viagra the night before the 19 A. We only have the testimony of the patient 19 onset of his visual symptoms. Do you understand the assumption I'm asking you to make? 20 and his medical records. That's all we have. 20 21 21 Q. And is that -- So what specifically did A. Yes. 22 you rely upon in concluding that there was a close 22 Q. So if you assume that, does that change 23 temporal relationship between Mr. Martin's drug use 23 your opinion with regard to causation in this case? 24 and his visual loss? 24 MR. RICHARDS: Objection to form. 25 JUDGE BORG: Overruled. 25 A. I believe he testified to this effect.

30 (Pages 114 to 117)

Page 118 Page 120 1 A. This is similar to what I stated in the of, so let's just say seven. I don't know. I don't 2 video. If you don't have a close temporal 2 know if we have the exact time or not. But, you 3 relationship between the drug use and the event that 3 know, the preceding day, within twenty-four hours, is coherent with the pharmacokinetics of the drug, 4 I think, would be my ballpark. If that's what you 4 5 in this case we talked about the half-life and its 5 mean by night, yes, I think that's reasonable. 6 maximum onset, so that means that night, then the 6 I think I said that in my opinion. Less than 7 case is weaker. 7 twenty-four hours. 8 Q. Okay. 8 Are you aware that Mr. Martin testified — 9 A. The farther away you are from the dose, 9 testified that he took it -- let's -- Strike that. 10 the less strong the case is. So that's why in the 10 You're aware there were two different incidents for video that you saw most of the forty-three cases I 11 11 Mr. Martin, correct? 12 would not consider very strong for temporal 12 A. Yes. 13 relationship, because the event was not within the 13 O. Okay. So let's focus on the first 14 same day. 14 incident. Okay? Q. Okay. I want to talk about Mr. Martin. 15 15 A. (Witness nods head.) 16 So if Mr. Martin - If you assume for purposes of my 16 Q. Are you aware that Mr. Martin testified 17 question that Mr. Martin did not take Viagra the 17 that he took it between seven-thirty and 8 p.m. at 18 night before the onset of his visual symptoms, does 18 night? 19 that change your opinion in this case? 19 A. I think that's correct. 20 A. Yes. Perhaps I didn't answer it the way 20 Q. Okay. How long after Mr. Martin took the 21 you wanted me to, but, yes, it would weaken the case 21 the Viagra did he engage in sexual activity? 22 the further away the dose is to the event. If you 22 A. This we'd have to look through the record 23 say he didn't take it that night, it weakens the 23 what he testified, but normally it would be within 24 case, but if you say it was twenty-five hours, it's 24 several hours of that. 25 still - it wouldn't change the opinion that much, 25 Q. Do you know? Page 119 Page 121 but if it was two weeks before, that would change it 1 1 A. No. 2 a lot. So I guess I can't really answer it the way 2 Q. How long after he took the Viagra did 3 you're phrasing it. It's not all or none. It just 3 Mr. Martin go to sleep? 4 weakens it or strengthens it. The closer the 4 A. I don't know the exact time he went to 5 temporal relationship, the stronger the case; the 5 sleep. 6 farther, the weaker the case, but it's not all or 6 Q. What time did Mr. Martin wake up the next none, because there's still drug in your system even 7 day? 8 beyond the half-life; it's just less and less and 8 A. I don't know the exact time. 9 less. Like - Am I making sense? Like if you say 9 O. What time did Mr. Martin first notice 10 did he take it the night of; well, what if he had 10 vision loss? 11 taken it the day of, still you would have an A. I think it was about - sometime when he -11 12 argument. But because you didn't say the night of, 12 after he woke up. 13 what does night of mean, seven o'clock, nine o'clock. 13 Q. What time --14 Q. Well, that's a good question. What's your A. I don't know the exact time of day. 14 15 understanding of when Mr. Martin says he took Viagra? 15 Q. Do you know if it was in the morning versus 16 A. I think he took it the night of, and the 16 the evening? 17 usual way that people take this is within a few 17 A. I think it was within the twenty-four-hour 18 hours of wanting to use it, because it's in the 18 period of time. I would have to look if you want me 19 instructions, so that is my impression. to see what he actually said on time. 19 20 Q. But I'm not talking about usually. I want 20 Q. Please. to ask -- You are giving an opinion. I want to ask 21 21 A. But it's not relevant. As long as it's 22 the basis of your opinion. So what is your 22 within the twenty-four hours, that's what would be my 23 understanding of when Mr. Martin took Viagra? 23 opinion. Twenty-four hours is reasonable. 24 A. In the pre - Sometime in the preceding 24 Q. Okay. But my question is what time did he 25 twelve hours prior to the next morning, so the night 25 notice --

31 (Pages 118 to 121)

Page 122 Page 124 1 Q. Now, as part of your review of the records A. I don't know any of these times. 1 2 in this case, did you look at the medical records 2 O. -- the onset of visual symptoms? 3 A. I don't know the time. 3 from Dr. Ferrera? Q. Do you know what he was doing at the time 4 A. I don't know. You'd have to let me see 4 5 he noticed the visual symptoms? what you're referring to. 5 6 6 A. I don't know what he was doing. Q. Okay. Do you know who Dr. Ferrera is? 7 A. I don't know these names, unless you show 7 O. Would that be relevant to your opinion? 8 A. Not really. 8 me what you're looking at. Q. Do you know whether he noticed any visual 9 (Lee Exhibit 17 was marked for 9 10 symptoms at any other time during the day? 10 identification by Attorney Leskin.) 11 Q. We're going to mark as Exhibit 17 medical 11 A. I don't know if he noticed any visual 12 records that are - that were collected from 12 symptoms. 13 Dr. Ferrera in this litigation, and they are Q. Do you know whether he noticed any visual 13 symptoms when he woke up that morning? 14 Bates numbered on the bottom, for the record, Martin, 14 15 Ferrera 1 through 375 (indicating). A. I don't know if he noticed visual symptoms 15 16 A. I doubt if I had that, because your stack when he woke up. 16 17 Q. Let's go to the second day -- the second is thicker than my stack (indicating). 17 eye. What time did Mr. Martin take the Viagra that 18 Q. Okay. You'll notice that on the bottom 18 19 right-hand corners are numbers, correct? 19 night? 20 20 A. I don't know any of these time things, so A. Yes. 21 you might as well not ask me those types of 21 Q. Okay. And those are Bates numbers that 22 were put on the records by my office when we received 22 questions. 23 Q. Well, do you know how long he took it --23 them from Dr. Ferrera, and they're really there to how long after he took Viagra that second -- before 24 help ease reference to various documents. Okay? 24 25 the second eye that he engaged in sexual activity? A. Yes. 25 Page 123 Page 125 O. Now, if you look at page 114 of 1 A. I did not precisely chart any of these time 1 things to that level of precision. 2 Dr. Ferrera's records --2 Q. Okay. And you don't know how long after he 3 A. (Witness complies.) Yes. 3 took the Viagra he went to sleep? 4 Q. - those are records from May 1st, correct? 4 5 5 A. No, I don't know any of these time things. O. Do you know what time he woke up? 6 O. Do you see on the bottom of that page 6 7 7 MR. RICHARDS: Objection. He just said he there's a record from May 1st? 8 doesn't know any time things. She keeps asking him A. I see --8 9 MR. RICHARDS: Objection to form. He can 9 time things. 10 JUDGE BORG: And that's overruled. She 10 read what's on here for May 1st. He didn't create 11 the records. He didn't know if it was actually on 11 can. A. I don't know any of these time things. 12 May 1st or not. 12 JUDGE BORG: Do you --MR. RICHARDS: Even if he's already 13 13 MS. LESKIN: I'll rephrase. 14 answered he doesn't know any time things? 14 15 JUDGE BORG: I understand that. You know 15 JUDGE BORG: All right. 16 O. I'm directing your attention to the bottom 16 how cross-examination works. A. I'm sorry. I don't know any of these time 17 of page 114 of Dr. Ferrera's records. Are you there? 17 18 A. Yes. 18 things. 19 Q. Do you know what time he first noticed 19 Q. Okay. And you'll see on the bottom of that visual symptoms in his right -- in his second eye? 20 page there is a record dated May 1st, 2002, correct? 20 A. I don't know the time things. 21 A. Yes. 21 22 Q. Do you know what he was doing at the time Q. Did you see this record before? 22 that he noticed the visual symptoms in his second 23 A. I think I have seen it, yes. 23 24 O. Okay. So this (indicating) is in the 24 eve? records that plaintiff's counsel provided to you? A. I don't know what he was doing. 25 25

32 (Pages 122 to 125)

1			
	Page 126		Page 128
1	A. I have this page right here (indicating).	1	A. Yes.
2	Q. Okay. And you've marked it with a Post-it	2	Q. And what medications did Mr. Martin list on
3	note?	3	this form?
4	A. Yes.	4	A. Catapres.
5	Q. Okay. Did you mark that Post-it note, or	5	Q. Any others?
6	did plaintiff's counsel mark that for you?	6	A. No.
7	A. I marked it.	7	Q. And I'll ask you to turn back in those
8	Q. And you marked it, because that's the day	8	records to Nichols 3.
9	that Mr. Martin first reported his vision loss,	9	A. (Witness complies.)
10	right?	10	Q. Are you there?
11	A. Yes.	11	A. Yes.
12	Q. On May 1st, 2002, do you see any record	12	Q. Have you seen this record before?
13	and you feel free to look back and forth in	13	A. Yes, I think so.
14	Dr. Ferrera's records, but on May 1st, 2002, do you	14	Q. And you'll see on the bottom half of that
1.5	see any indication that Mr. Martin reported to	15	
16	Dr. Ferrera that he had taken Viagra the night before	1	page there's a record dated May 1st, 2002, correct?
17	he noticed his vision loss?	16 17	Are you with me?
18	A. Well, there are no medicines, so	Į.	A. Yes.
19	Q. I'm sorry?	18	Q. And you'll see there's a note on the chart
20	A. There are no medicines.	19	that says Catapres?
21		20	A. Yes.
22	Q. So you do not see anything that refers to	21	Q. Do you see anywhere on this form where
23	the use of Viagra the night before, is that correct?	22	Dr. Nichols indicated that Mr. Martin took Viagra the
24	A. Yes, because there are no medicines listed,	23	night before the onset of his eye condition?
	unless there's some other part of this record. No.	24	A. No, but he didn't really ask that either.
25	The answer to your question is no. No medicines are	25	Q. Well, did you review Dr. Nichols'
	Page 127		Page 129
1	listed.	1	deposition transcript in this case?
2	(Lee Exhibit 18 was marked for	2	A. No.
3	identification by Attorney Leskin.)	3	Q. Are you aware that Dr. Nichols gave the
4	Q. I'm going to mark as Exhibit 18	4	following testimony: Question and this is, for
5	(indicating) medical records that we received from	5	the record, page 15, lines 12 through 24, of
6	Dr. Nichols, and they are Bate stamped Martin,	6	Dr. Nichols' deposition testimony question, under
7	Nichols 1 through Martin, Nichols 28.	7	
		'	number 8 it asks for any medication the patient is
8	A. Are you done with this one (indicating)?	8	number 8 it asks for any medication the patient is taking, and Mr. Martin mentioned Catapres? Answer,
8 9		1	
9 10	A. Are you done with this one (indicating)?	8	taking, and Mr. Martin mentioned Catapres? Answer,
9 10 11	A. Are you done with this one (indicating)?Q. For now. You can put that off to the side,	8 9	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer,
9 10	A. Are you done with this one (indicating)?Q. For now. You can put that off to the side, but don't get rid of it.	8 9 10	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information
9 10 11	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) 	8 9 10 11	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications
9 10 11 12	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? 	8 9 10 11 12	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told
9 10 11 12 13	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. 	8 9 10 11 12 13	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other
9 10 11 12 13	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. 	8 9 10 11 12 13	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart?
9 10 11 12 13 14	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. 	8 9 10 11 12 13 14 15	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that
9 10 11 12 13 14 15	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. Q. Have you seen this page before? A. I think so. Anyway, yes, I think so. 	8 9 10 11 12 13 14 15 16	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that testimony before?
9 10 11 12 13 14 15 16 17	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. Q. Have you seen this page before? A. I think so. Anyway, yes, I think so. Q. Okay. And do you understand that to be an 	8 9 10 11 12 13 14 15 16 17	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that testimony before? A. No, but it doesn't say he asked about
9 10 11 12 13 14 15 16 17 18	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. Q. Have you seen this page before? A. I think so. Anyway, yes, I think so. Q. Okay. And do you understand that to be an intake form that was completed by Mr. Martin or his 	8 9 10 11 12 13 14 15 16	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that testimony before? A. No, but it doesn't say he asked about Viagra there either. If you don't ask, men will not
9 10 11 12 13 14 15 16 17 18 19 20	 A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. Q. Have you seen this page before? A. I think so. Anyway, yes, I think so. Q. Okay. And do you understand that to be an 	8 9 10 11 12 13 14 15 16 17 18 19 20	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that testimony before? A. No, but it doesn't say he asked about Viagra there either. If you don't ask, men will not disclose this information.
9 10 11 12 13 14 15 16	A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. Q. Have you seen this page before? A. I think so. Anyway, yes, I think so. Q. Okay. And do you understand that to be an intake form that was completed by Mr. Martin or his wife the first time they saw Dr. Nichols? A. Yes.	8 9 10 11 12 13 14 15 16 17 18 19 20 21	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that testimony before? A. No, but it doesn't say he asked about Viagra there either. If you don't ask, men will not disclose this information. Q. I'm going to ask you to turn back to
9 10 11 12 13 14 15 16 17 18 19 20 21	A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. Q. Have you seen this page before? A. I think so. Anyway, yes, I think so. Q. Okay. And do you understand that to be an intake form that was completed by Mr. Martin or his wife the first time they saw Dr. Nichols? A. Yes. Q. And that's dated May 1st, 2002, correct?	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that testimony before? A. No, but it doesn't say he asked about Viagra there either. If you don't ask, men will not disclose this information. Q. I'm going to ask you to turn back to Dr. Ferrera's records and ask you to turn to Ferrera
9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Are you done with this one (indicating)? Q. For now. You can put that off to the side, but don't get rid of it. A. (Witness complies.) Q. Have you seen these records before, Doctor? A. Yes, I think I have some of these. Q. Okay. If you'd look at Nichols 10. A. (Witness complies.) Yes. Q. Have you seen this page before? A. I think so. Anyway, yes, I think so. Q. Okay. And do you understand that to be an intake form that was completed by Mr. Martin or his wife the first time they saw Dr. Nichols? A. Yes.	8 9 10 11 12 13 14 15 16 17 18 19 20 21	taking, and Mr. Martin mentioned Catapres? Answer, correct. Question, did you review that information with Mr. Martin at the time you saw him? Answer, yes. Question, and were there any other medications that Mr. Martin identified for you as of May 1st, 2002? Answer, no. Question, if Mr. Martin had told you as of May 1st, 2002, that he had taken any other medications, would you have noted that in his chart? Answer, yes, I would have. You'd not seen that testimony before? A. No, but it doesn't say he asked about Viagra there either. If you don't ask, men will not disclose this information. Q. I'm going to ask you to turn back to

33 (Pages 126 to 129)

1	Page 130		Page 132
1	A. Yes.	1	Q. Did you, in fact, see this before today?
2	Q. And if you look at the entry on the bottom	2	A. I think so.
3	of that page, you'll see it's dated October 6th,	3	Q. Okay. If Mr. Martin I want to go back
4	2004?	4	to Dr. Ferrera's record from October 6th, 2004, the
5	A. Yes.	5	one we referenced earlier
6	Q. If you look at the fourth sentence of that	6	A. Can you tell me that number again?
7	entry, it says, quote, he still has erectile	7	Q. Sure. It's Ferrera 92.
8	dysfunction but relates to me that he does not feel	8	A. (Witness complies.) Okay.
9	that the Viagra was given at the time that he went	9	Q where Dr. Ferrera wrote he still has
10	blind, end quote. Do you see that sentence?	10	erectile dysfunction but relates to me that he does
11	A. Yes.	11	not feel that the Viagra was given at the time he
12	Q. Had you seen this entry before today?	12	went blind.
13	A. I think I have seen this.	13	A. Yes.
14	Q. Do you know who Dr. McEllistrem is?	14	Q. If Mr. Martin's statement to Dr. Ferrera
15	A. No.	15	that he was not taking Viagra at the time of the
16	Q. Let me hand you an excerpt from	16	NAION onset, if that statement is correct, does that
17	Dr. McEllistrem's records.	17	change your opinion as expressed in your report?
18	(Lee Exhibit 19 was marked for	18	A. Yeah, if he didn't take it, then it's hard
19	identification by Attorney Leskin.)	19	to establish close temporal relationship.
20	Q. Well, you know what, I'll mark	20	Q. The second element that you identified
21	Dr. McEllistrem's records as Exhibit 19 (indicating),	21	key factor you identified in your report is the
22	and these are Bate stamped Martin, McEllistrem 1	22	nocturnal use of the agent in question.
23	through Martin, McEllistrem 40, and I'll ask you to	23	A. Yes.
24	take a look at that and tell me whether you've seen	24	Q. What is the significance of the nocturnal
25	these records before.	25	use?
	Page 131		Page 133
1	A. (Witness complies.) I don't think I have		
	A. TWITHESS COMDITES.) I GON I IMME I HAVE	1	A. One of the things that people believe is
2	seen this.	1 2	A. One of the things that people believe is that nocturnal hypotension is a predisposing or
1	seen this.	1	that nocturnal hypotension is a predisposing or
2		2	that nocturnal hypotension is a predisposing or precipitating factor in ischemic optic neuropathy,
2 3	seen this. Q. If you take a look at page 31 of	2 3	that nocturnal hypotension is a predisposing or precipitating factor in ischemic optic neuropathy, so if you take the agent during the day, it might not
2 3 4	gen this.Q. If you take a look at page 31 ofDr. McEllistrem's records.A. (Witness complies.)	2 3 4	that nocturnal hypotension is a predisposing or precipitating factor in ischemic optic neuropathy,
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34 (Pages 130 to 133)

		1.	
	Page 134		Page 136
1	A. I don't know.	1	Q. Okay. So someone with predisposing risk
2	Q. What was his blood pressure immediately	2	factors, how far does their blood pressure have to
3	before the onset of his eye loss vision loss?	3	drop in order to cause NAION?
4	A. I don't know. I don't know any of these	4	A. We don't know that.
5	blood pressure things, because they weren't recorded.	5	Q. How long does their blood pressure have to
6	Q. So you don't, in fact, know whether or not	6	be dropped in order for there to be NAION?
7	Mr. Martin suffered from nocturnal hypotension, is	7	A. We don't know that.
8	that correct?	8	Q. How long has Mr. Martin's blood pressure
9	A. On the nights in question?	9	dropped, if at all?
10	Q. Correct.	10	A. We don't know any of the blood pressure
11	A. Yeah, we don't know that.	11	questions that you're asking me, because there are
12	Q. The next key factor you wrote is the	12	no blood pressure measurements for the nights in
13	bilateral and rapidly sequential nature of the NAION	13	question.
14	in close proximity in time to one another, right?	14	Q. The next point you raise is the lack of
15	A. Yes.	15	alternative etiologies for the effect. Now, you
16	Q. And as we identified earlier in	16	identified exclusion of temporal arteritis here.
17	Dr. Newman's report on the decompression trial, the	17	That's simply ruling out another cause of the effect,
18	median interval was 1.2 years, right, that she	18	the loss of vision, correct?
19	reported between eyes, correct?	19	A. No, there are two types of ischemic optic
20	A. That's correct.	20	neuropathy. Remember we talked about arteritic and
21	Q. But the range was between sixteen days and	21	nonarteritic?
22	six years, correct?	22	Q. Right.
23	A. That's correct.	23	A. Arteritic is what you would be worried
24	Q. Number 4 you wrote, was a biologically	24	about if you have bilateral and rapidly sequential.
25	plausible mechanism for the effect. Is that the same	25	So if someone has both eyes that close together, we
,	Page 135		Page 137
1 2	effect that we've been talking about earlier?	1	really are worried about temporal arteritis, but it
3	A. Hypotension is the biologically	2	was not the case.
4	plausible –	3	Q. So for number 5 the only thing you're
5	Q. Okay. And that's the same effect that you	4	referring to is whether he had nonarteritic as
6	described on the video as weak, correct?	5	opposed to arteritic, correct?
7	A. No, the hypotension is not weak. The	6	A. Well, there are other causes of optic
8	hypotension is strong. The weak link is the	7	neuropathy, inflammation, infection and all these
9	hypoperfusion of the optic nerve head, which we do not have that.	8	other things
10	Q. Okay. How far did Mr. Martin's blood	9	Q. Okay.
11	pressure drop as a result of taking Viagra?	10	A but none of them were present either,
12	A. We don't know that.	11	but I gave the example of temporal arteritis.
13	Q. How far does your blood pressure have to	12	Q. Okay. So when you On number 5 when you
14	drop in order to cause NAION?	13	say the lack of alternative etiologies for the
15	A. We don't know that, because there are	14	effect, are you referring solely to the diagnosis of
16	predisposing factors, and there are precipitating	15	NAION as opposed to other disease conditions?
17	factors. The predisposing factors are the things we	16	A. Yes.
18	talked about before.	17	Q. Okay.
19	Q. The vasculopathic risk factors?	18	A. So -
20		19	Q. You're not referring to other potential
21	A. Vasculopathic. And so someone who's	20	causes of NAION here in this sentence?
22	totally healthy and has good blood vessels might be	21	A. Both.
23		22	Q. Okay.
24	nothing would happen to them, but someone who has	23	A. There was no other precipitating factor
25	predisposing factors, a little bit of hypotension may be enough to precipitate an event.	24	that could be implicated, even though there were a
	, or chough to precipitate an event.	25	number of predisposing, so — For example, if you

35 (Pages 134 to 137)

Page 138 Page 140 have surgery or blood loss, you can get ischemic 1 Q. So you have not ruled out Catapres, is that 2 2 optic neuropathy. He had no - nothing else to right? 3 3 blame, so it's either coincidence, or it's the drug. A. I have not, and there is no test to do 4 Those are your two choices. 4 that. There is no - You can only apply the 5 O. Okay. How do you rule out coincidence in 5 criteria, again, do the same things, same list, same 6 this case? б seven things, so - It's weaker on Catapres if you 7 7 apply the seven criteria of Austin Bradford Hill. A. You cannot. Those are the two competing 8 hypotheses --8 O. Okay. The last key factor you identified Q. Okay. And --9 is the apparent rechallenge with the same effect, 9 10 10 A. -- coincidence or not. and you're referring to the one eye and then the Q. Okay. And you cannot rule out coincidence 11 second eye, that Mr. Martin testified he took Viagra 11 12 the night before? 12 in this case, is that true? A. You cannot rule out coincidence. 13 A. We skipped number six, but maybe -13 O. Mr. Martin told his -- told Dr. McEllistrem 14 O. Oh, I'm sorry. You're right. I did. 14 that he had taken Catapres -- just started taking 15 Number 6, the presence of predisposing vasculopathic 15 16 Catapres, correct? 16 risk factors. Now, you told me, though, that those 17 A. Yes. 17 factors in and of themselves are risk factors for 18 Q. Could Catapres be a precipitating factor 18 NAION, correct? for NAION? 19 A. That's correct. So -19 20 Q. And a patient could have those 20 A. Yeah. MR. RICHARDS: Objection, form. 21 vasculopathic risk factors and nothing else and 21 22 22 still get NAION, correct? A. Yes. MR. RICHARDS: She hasn't established he 23 A. That's correct. 23 24 Q. And that's why you're not able to rule out 24 even knows what Catapres is. 25 JUDGE BORG: The witness answered the coincidence? 25 Page 139 Page 141 1 A. That's correct, too. 1 auestion, so --2 2 THE WITNESS: Sorry. I'm too fast on the Q. Okay. 3 A. But they're important in establishing the 3 Q. I'll back up. Do you know what Catapres 4 predisposition. So the predisposition is probably 4 5 necessary for a precipitating effect to occur if 5 is, Doctor? 6 there's some predisposing thing. Like I said before, 6 A. I know what Catapres is. 7 7 if you're totally healthy, and your blood pressure Q. What is Catapres? A goes down 4 millimeters, probably nothing will happen 8 A. Antihypertensive drug. Q. Could Catapres be a precipitating risk 9 to you. 9 10 Q. If Mr. Martin had walked into your office 10 factor for NAION? A. Yes. 11 with the same predisposing vasculopathic risk factors 11 12 12 Q. How are you able to rule out Catapres? that you reference here but had not taken Viagra, 13 Well, strike that. Are you able to rule out Catapres 13 what would you say caused his NAION? 14 as a potential precipitating cause in this case? 14 A. Then we would be going through the other 15 A. You cannot rule this out. You would apply 15 list of things, including the Catapres and the -16 the same criteria, when did you take the drug, what 16 Other things would be subjected to the same 17 Austin Bradford Hill criteria. 17 was the half-life and maximum onset, so if you say, 18 18 look, I took the Catapres, then that night I went to Q. And all of those things still are on the bed, when I woke up I lost my vision, and every time 19 differential for Mr. Martin, correct? 19 20 20 I take the Catapres I get dizzy, whatever, then these A. That's correct. 21 Q. And as you said, you cannot rule out 21 are things that would suggest an alternative 22 22 etiology, but there's no test to rule out Catapres. coincidence, and you cannot rule out Catapres, 23 Q. So have you ruled out Catapres as a 23 24 potential cause for Mr. Martin's NAION? 24 A. There's no test to rule these things out. A. There's no test to rule it out. 25 MS. LESKIN: I'm told we have to change the 25

36 (Pages 138 to 141)

1	Page 142		Page 144
] 1	tape, so - I need more than three minutes for my	1	Q. And a negative rechallenge is when you give
2	line of questioning, so let's take a break.	2	someone a medication again, and they don't have an
3	JUDGE BORG: Time?	3	effect again, correct?
4	THE VIDEOGRAPHER: 4:07.	4	A. Yes.
5	(A brief recess was taken.)	5	Q. Okay. Were you aware that Mr. Martin
6	JUDGE BORG: We're on. Time?	6	started taking Viagra in April of 1998?
7	THE VIDEOGRAPHER: 4:17.	7	A. Yes.
8	JUDGE BORG: 4:17. Ms. Leskin, go ahead.	8	Q. And he took it once or twice a week,
9	Q. (By Ms. Leskin) Okay. Doctor, the last	9	correct?
10	key factor you identified in your report talks about	10	A. Yes.
11	the apparent rechallenge in this case?	11	Q. So by the time that he had his NAION in
12	A. Yes.	12	
13	Q. Okay. Now, a rechallenge Let's go	13	his first eye, the end of April 2002, would you agree
14	through some definitions. A rechallenge	14	with me that he would have used Viagra approximately two hundred times?
15	A challenge is when you give someone a medication,	15	
16	correct -	1	A. Yes.
17	A. Yes.	16	Q. And he had no side effects from any of
18	Q. — in the context of a medication, right?	17	those, correct?
19	A. (Witness nods head.)	18	MR. RICHARDS: Objection to form.
20	Q. A challenge is you give someone the	19	A. He did not have ischemic optic neuropathy.
21	medication, correct?	20	Q. Correct. Thank you. Thank you for
22	A. Yes.	21	clarifying that. He had no ischemic optic neuropathy
23		22	after taking Viagra, correct, on those first
24	Q. A positive challenge is they have an effect	23	two hundred times?
25	from the medication, correct?	24	A. On those previous challenges.
-	A. Yes.	25	Q. Okay.
	Page 143		Page 145
1	Q. And a negative challenge is they have no	1	JUDGE BORG: I was going to sustain that
2	side effect they have no effect from the	2	objection.
3	medication?	3	MR. RICHARDS: You were?
4	A. Yes.	4	JUDGE BORG: Yep.
,			
5	Q. Okay. And a dechallenge is when you take	5	
5 6	the medication away, they get You take the	5 6	MR. RICHARDS: It would have been the first.
5 6 7	the medication away, they get You take the medication away, that's dechallenge, correct?	1	MR. RICHARDS: It would have been the first.
5 6 7 8	the medication away, they get You take the medication away, that's dechallenge, correct? A. Yes.	6	MR. RICHARDS: It would have been the
5 6 7 8 9	the medication away, they get You take the medication away, that's dechallenge, correct? A. Yes. Q. And a positive dechallenge is you take the	6 7	MR. RICHARDS: It would have been the first. JUDGE BORG: But Dr. Lee straightened Ms. Leskin out.
5 6 7 8 9	the medication away, they get You take the medication away, that's dechallenge, correct? A. Yes. Q. And a positive dechallenge is you take the medication away, and they get better, right?	6 7 8	MR. RICHARDS: It would have been the first. JUDGE BORG: But Dr. Lee straightened Ms. Leskin out. Q. We are right on track with each other.
5 6 7 8 9 10	the medication away, they get You take the medication away, that's dechallenge, correct? A. Yes. Q. And a positive dechallenge is you take the medication away, and they get better, right? A. Yes.	6 7 8 9	MR. RICHARDS: It would have been the first. JUDGE BORG: But Dr. Lee straightened Ms. Leskin out. Q. We are right on track with each other. So under the definitions we just went over, each time
5 6 7 8 9 10 11	the medication away, they get You take the medication away, that's dechallenge, correct? A. Yes. Q. And a positive dechallenge is you take the medication away, and they get better, right? A. Yes. Q. And a negative dechallenge is you take the	6 7 8 9	MR. RICHARDS: It would have been the first. JUDGE BORG: But Dr. Lee straightened Ms. Leskin out. Q. We are right on track with each other.
5 6 7 8 9 10 11 12	the medication away, they get You take the medication away, that's dechallenge, correct? A. Yes. Q. And a positive dechallenge is you take the medication away, and they get better, right? A. Yes. Q. And a negative dechallenge is you take the medication away, and they either have no change, or	6 7 8 9 10 11	MR. RICHARDS: It would have been the first. JUDGE BORG: But Dr. Lee straightened Ms. Leskin out. Q. We are right on track with each other. So under the definitions we just went over, each time that Mr. Martin took Viagra, that's a rechallenge, correct?
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Page 146 Page 148 1 A. Yes. 1 names, but if you can just tell me generally. 2 Q. Why was Mr. Stanley's case not as strong? 2 A. We always ask all our patients who have 3 A. I don't remember exactly the circumstances. 3 NAION if they have taken Viagra or any of the 4 but I believe that he did not have the full seven 4 erectile dysfunction agents. 5 criteria. He only had three or four. I can't 5 Q. And why do you ask that question? 6 remember exactly. 6 A. Because of the question of causality, and 7 MS. LESKIN: I have nothing further. 7 also we apply the Austin Bradford Hill criteria to JUDGE BORG: Mr. Richards, are you going to 8 8 their individual cases so that we can advise them 9 do it? 9 appropriately on the risk and benefit of using these 10 MR. RICHARDS: I'm going to take a short 10 agents. 11 break --11 Q. When did you -- If you recall, when did you 12 JUDGE BORG: Okay. 12 start asking that question? 13 MR. RICHARDS: -- and get my questions 13 A. Right when it all started coming out in 14 14 the lay press, that would be in the mid 2000s, very 15 JUDGE BORG: All right. We can do that. 15 close in time to the FDA warning that was listed as 16 MS. LESKIN: Okay. 16 an exhibit. I can't remember which one it was. 17 JUDGE BORG: Off the record at --17 Q. So you apply the Bradford Hill criteria for 18 THE VIDEOGRAPHER: 4:20. 18 each patient that you see that informs you that they 19 (A brief recess was taken.) 19 took Viagra or a PDE-5 inhibitor? JUDGE BORG: Back on at --20 20 A. Yes, and we have to make a special effort 21 THE VIDEOGRAPHER: 4:32. 21 to ask them about it, because, as I alluded to 22 JUDGE BORG: 4:32. Go ahead. 22 before, many patients do not disclose that they are 23 **CROSS-EXAMINATION** 23 taking these agents for various stigma reasons, 24 BY MR. RICHARDS: 24 they're embarrassed by it, so if you don't ask, they 25 Q. Good afternoon, Dr. Lee. I'm going to 25 definitely don't tell you. Page 147 Page 149 1 follow up with some questions that Ms. Leskin touched O. And in 2002 prior to the time that lay 1 2 upon, and I may want to -- can you --2 opinion became -- the lay press kind of picked up on 3 MR. RICHARDS: Can the videographer see 3 the possible association there was even less of a 4 Dr. Lee okay? 4 reason for a patient to inform a doctor that they may 5 THE VIDEOGRAPHER: Yes. 5 have taken Viagra? 6 MR. RICHARDS: Okay. 6 MS. LESKIN: Objection, calls for 7 Q. I know I'm sitting beside you, so I 7 speculation. 8 apologize if it seems a little strange, but -- you 8 JUDGE BORG: Overruled. 9 had testified earlier that back in - your current 9 A. Yes, patients were not aware of this until 10 practice, about two hundred or three hundred NAION 10 it reached the lay press level and made all the 11 cases -- You see about two hundred or three hundred 11 headlines, et cetera. 12 NAION cases a year, is that right? 12 Q. In fact, physicians were generally not 13 A. Yes. 13 aware of it before it reached the lay press and made 14 Q. And with any of those two or three hundred 14 the headlines, right? 15 NAION cases that you see a year, are you aware or 15 MS. LESKIN: Objection, calls for 16 do you recall as to whether or not any of those 16 speculation. 17 took -- any of those patients took a PDE-5 inhibitor 17 A. Yes, that --18 within a temporal relationship to developing the 18 JUDGE BORG: I'll overrule --19 onset of this disease? 19 MS. LESKIN: If he's providing an expert 20 MS. LESKIN: Objection to the extent that 20 opinion on that, Judge, then he needs to have a 21 it violates patient privacy, people who are not 21 basis for that. That's not in his report. 22 patients -- plaintiffs in this litigation. 22 JUDGE BORG: A little more foundation 23 JUDGE BORG: Overruled. I'm going to 23 would make it a little easier with respect to the 24 overrule that. 24 objection. 25 Q. And I don't want you to name any patient 25 Q. In two thousand -- Prior to 2005 did you

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Page 150
                                                                                                                   Page 152
   1
        have a reason to believe that Viagra or any PDE-5
                                                                    1
                                                                         number of years to establish a cause and effect
   2
        inhibitor was associated with NAION?
                                                                         relationship, which, I believe, is why the FDA is
   3
           A. No, only after that did it become a big
                                                                    3
                                                                         trying to do this. It's not going to be able to be
   4
        issue and become part of our standard questionnaire.
                                                                    4
                                                                         done by one single center, so - it's going to take a
   5
           Q. So in applying the Bradford Hill criteria
                                                                         lot of patients and a lot of time, but if the study
                                                                    5
   6
        to the patients that you had mentioned, the two or
                                                                    6
                                                                         is too small or too short, then it will show the
   7
        three hundred, do you recall whether or not you had
                                                                    7
                                                                         opposite effect; it will show there is no causal
   8
        made any causal assessments on any of those patients?
                                                                         relationship, even though there could be if you had
                                                                    8
   9
              MS. LESKIN: Objection. Those patients
                                                                         more patients and a longer time.
                                                                   9
        are not plaintiffs in this litigation. He is not
 10
                                                                  10
                                                                               So I think the major quibbles with the
 11
        being offered as an expert in those. To the extent
                                                                  11
                                                                         study are it needs to be bigger and needs to have
 12
        they form the basis for his opinion, then he needs to
                                                                  12
                                                                         longer duration of follow-up, and then there were
 13
        be ---
                                                                  13
                                                                         some side disagreements about collecting other
 14
              JUDGE BORG: So is your objection to form?
                                                                  14
                                                                         additional data that might be useful. Since we're
 15
              MS. LESKIN: Yes.
                                                                  15
                                                                         getting the information on ischemic optic neuropathy
 16
              JUDGE BORG: It's overruled.
                                                                         anyway, we might as well collect a whole broad range
                                                                  16
 17
              You can repeat the question.
                                                                  17
                                                                         of data points to learn something about the disease.
              MR. RICHARDS: Madam Court Reporter, could
 18
                                                                  18
                                                                         but the company is not willing to do this.
 19
       you read the question?
                                                                  19
                                                                           Q. Is there a difference between a cause and
 20
             MS. LESKIN: And to the extent it's not an
                                                                  20
                                                                         effect relationship in the scientific community
 21
       objection to form, we reserve the right to raise it
                                                                         versus a cause and effect relationship in the legal
                                                                  21
       as to admissibility with the court.
 22
                                                                  22
                                                                         community?
 23
             JUDGE BORG: Of course you do.
                                                                 23
                                                                           A. Yes. My understanding of it is that when
 24
             MS. LESKIN: Just making clear.
                                                                 24
                                                                         we're trying to establish cause and effect for a
 25
             JUDGE BORG: That goes without saying.
                                                                 25
                                                                        population, that's an epidemiologic type of study
                                                  Page 151
                                                                                                                  Page 153
  1
       All of those objections are reserved pursuant to the
                                                                   1
                                                                        that's going to require many, many, many patients
  2
       court's order.
                                                                   2
                                                                        followed over years and in medical centers. That's
  3
             (Requested portion of record was read.)
                                                                   3
                                                                        the whole point of the prospective studies that have
  4
          A. Yes, so if they have a weak assessment,
                                                                        been mandated by the FDA for the companies. But when
                                                                   4
  5
       as I mentioned in the presentation, we tell them the
                                                                        we're talking about an individual patient that's
  6
       risk is low; if it's moderate, then we tell them the
                                                                   6
                                                                        sitting there in the room with you, you can only
  7
       risk is moderate; if it's high, and they have all
                                                                   7
                                                                        advise them on their specific situation, their
  8
       seven criteria, I tell them the risk is high, and
                                                                   8
                                                                        predisposing risk factors, and then we apply the
  9
       they have a quality of life decision whether they
                                                                        Austin Bradford Hill criteria to give them the best
                                                                   9
       want to continue to use the agent.
10
                                                                 10
                                                                        advice that we can based on their specific situation.
11
          Q. Ms. Leskin also asked you about the
                                                                 11
                                                                        So in a legal setting I was asked to comment about
12
       Pfizer study that the institution here at the
                                                                 12
                                                                        Mr. Martin, and that's what I have done here.
       University of Iowa is undertaking. You had mentioned
13
                                                                 13
                                                                           Q. And the legal setting is not to a
       that you doubted whether your university would engage
14
                                                                        100 percent certainty, right?
                                                                 14
15
       in that study, that there were some questions
                                                                 15
                                                                           A. No. I was only asked is it more likely
16
       regarding the -- I guess the protocol. Could you
                                                                 16
                                                                        than not, and that's why some of the cases that they
17
       elaborate on what questions that you had or some of
                                                                 17
                                                                       presented I didn't feel were very strong; some I
18
       your colleagues may have had regarding the protocol
                                                                       thought were very strong. Just as I presented in
                                                                 18
19
       posed by Pfizer?
                                                                 19
                                                                       the - much more forcefully in the presentation that
20
          A. There have been numerous questions raised
                                                                 20
                                                                       was shown, a lot of the cases in the FDA database are
21
       about this study, and the major ones are sample size.
                                                                 21
                                                                       weak, but some, like Mr. Martin's, are very strong.
22
       Because nonarteritic ischemic optic neuropathy is so
                                                                 22
                                                                          Q. When you advise patients regarding various
       uncommon, it would take many, many thousands of
23
                                                                 23
                                                                       risk factors associated with ED drugs, what do you
24
       patients scattered over many, many centers, and you
                                                                 24
                                                                       advise them?
25
       would probably have to follow them for a significant
                                                                          A. We try to tell them their risk. I try to
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39 (Pages 150 to 153)

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DEPOSITION OF ANDREW LEE, M.D., 1/13/2009

Page 154

- establish the Bradford Hill criteria. The most
- 2 important is the temporal relationship coherent with
- 3 the pharmacokinetics of the drug. That's the thing
- 4 we talked about before. So if they have their
- 5 ischemic optic neuropathy, and it was like a week
- 6 later, I think the risk is not so good, but if
- 7 someone has had ischemic optic neuropathy, and then
- 8 they got a rechallenge, and they got it again, boy,
- 9 that's really going to make us nervous, and we're
- 10 going to tell that person there's a significant risk
- 11 for getting it again, and we probably would recommend
- 12 not using it. So there's - A risk/benefit decision
- 13 has to be made based on the individual patient and
- 14 provide a discussion about the Bradford Hill
- 15 criteria, and then we lay out the risk/benefits to
- 16 them. I don't tell them they can't take it, because
- 17 it's a life-style choice, but I tell them the risk
- 18 is high, medium or low.
- 19 Q. On direct examination you had talked about
- 20 comparing the two groups in Dr. Newman's study and
- 21 how you can't provide -- I think comparing the two
- 22 groups does not provide you with an incidence rate.
- 23 Could you elaborate on that, why it's improper to
- 24 compare what you called apples and oranges in
- 25 Dr. Newman's study?

1

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- bilateral for the incidence calculation, because
- they're the ones that are going to go to the doctor.
- 3 The only thing we include, the 14.7 percent fellow
 - eye involvement that occurred over the five-year
 - period of the study. I did not make this clear,
 - I don't think, to counsel very well, but it's apples and oranges.
 - Q. Since you've published your paper -- your
- 9 Viagra paper -- or your PDE-5 inhibitor paper in
- 10 2005 -- in October 2005 are you aware of whether
- 11 Pfizer has undertaken any prospective or case-control
- 12 studies to determine a cause and effect relationship? 13
- A. Yes, I think they have been mandated by 14 the FDA to do this and to try and get at this, and
- 15 that's where we are looking at the preliminaries, and 16
- I attended the preliminary meeting, but I don't have 17
- any involvement with it anymore because of moving to 18 Houston.
- 19 O. So between October 2005 and until
- 20 relatively recently, you mean -- how many months ago? 21
 - A. In the last year.
 - Q. Okay. And between October 2005 when you published your study and last year you're not aware
 - of any studies -- prospective case-control studies
 - that Pfizer has undertaken?

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- A. Because counsel was trying to lump in the bilateral cases with the bilateral sequential cases.
- The bilateral sequential cases tell you the incidence
- 4 of fellow eye involvement, and that number is
- 5 14.7 percent. The number we tell patients is between
- 6 12 and 14 percent to give it some range, because that
- 7 number is not hard and fast. But the patients that 8 came already to the study with bilateral, they cannot
- be included, because they already had their event 9
- 10 before, and so you don't know when that occurred,
- 11 whether it was last year or five years ago to
- 12 ten years ago, and someone who's already had ischemic
- 13 optic neuropathy in one eye is a lot more likely to
- 14 go to the doctor, because they already have it in the
- 15 one eye, so you cannot use them for anything, so -
- 16 It's interesting that they were bilateral,
- 17 but it cannot be used to establish the incidence rate
- 18 in the fellow eye because of ascertainment bias,
- 19 which is what we talked about before. Ascertainment
- 20 bias means you're already collecting a bunch of
- 21 people who are bilateral, because those are the ones
- 22 that are super likely to go to the doctor and end up
- at a medical center where a study is being done, so 23
- 24 that's ascertainment bias. So we cannot include the
- 25 bilateral patients who already had it in one eye as a

- Page 157
- A. No, but why would they want to do this? I mean, that's why it has to be mandated.
 - Q. What do you mean by that?
- A. If there's a possibility that your drug could cause blindness, you don't want to find that
- out, let alone pay for it, but if FDA mandates it, then you have to do it.
- Q. And your understanding is the FDA has
- mandated that they undertake these studies?
- A. Yes, and I think that's a good thing, because that's the only way we're really going to be able to answer the question.
- Q. And that's the ultimate goal, really, isn't it, is to try to find out whether, in fact, there is a cause and effect relationship with this
- drug and NAION, right? A. That's correct, that's the only way to know. The only way to know is to have a prospective observational study where we can look at specific
- time points, capture all the patients and see whether it really is cause and effect or whether it's coincidence.
- Q. You had made reference to the fact that there may be more cases -- there may have been more cases published since the 2005 FDA alert. Are you

40 (Pages 154 to 157)

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Page 158
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  1
       referring to any specific cases or just generally?
                                                                        other. I happened to draw the con side. But it's
  2
          A. We know that many more cases have been
                                                                  2
                                                                        totally misleading to just show the con side.
  3
       published in the literature and also that the
                                                                  3
                                                                          Q. So in applying -- in rendering your opinion
       database has more patients in it. I have not
  4
                                                                  4
                                                                        in this case you applied the Bradford Hill criteria
  5
       accessed this database lately, but there are
                                                                  5
                                                                       to Mr. Martin's case?
  6
       definitely more patients in there from what people
                                                                  6
                                                                          A. Yes. In fact, I think that's why you chose
  7
       are saying. I think it's in the fifty range, but I
                                                                  7
                                                                       me to be an expert. You knew that this was my
  8
       don't know. There's definitely more patients.
                                                                  8
                                                                       opinion. You had my published editorial. Everything
  9
          Q. In the presentation that was played on the
                                                                  9
                                                                       that was brought up in this deposition is my opinion.
10
       TV you said that the presentation that was shown to
                                                                10
                                                                       I don't run away from it. I stand by every single
       you, the seven and a half minutes, did not show the
11
                                                                11
                                                                       thing that we've said. The whole point is I am a
12
       pro side of causation. It showed, I guess, your
                                                                12
                                                                       skeptic and have been a skeptic the whole time, but
13
       con side of causation. Who did the pro side of
                                                                13
                                                                       for this particular case, this patient's case meets
14
       causation?
                                                                14
                                                                       the more likely than not standard for causality, the
15
          A. Alfredo Sadun. That's why it's misleading
                                                                15
                                                                       legal thing we're talking about. Does it prove for
16
       to just show the con side, because the whole point of
                                                                16
                                                                       all the patients that erectile dysfunction agents
17
       the presentation was one doctor took the pro side.
                                                                17
                                                                       cause nonarteritic anterior ischemic optic
18
       and the other doctor took the con side. We would
                                                                18
                                                                       neuropathy; no, but no single case can prove that.
       never present like that if I was just giving the
19
                                                                       That means an observational prospective study. But
                                                                19
20
       presentation about erectile dysfunction agents,
                                                                20
                                                                       if you're just asking me about this patient, yes, it
21
       because I would never leave off just the pro side.
                                                                21
                                                                       is my opinion that more likely than not it was a
22
       That would be ridiculous. The whole point of that
                                                                22
                                                                       precipitating factor.
       presentation was to have two doctors to show the pro
23
                                                                23
                                                                          Q. And by "precipitating factor," explain to
24
       and the con. If you only show the con, that is
                                                                24
                                                                       me what you mean by that.
25
       completely misleading and - I still stand by
                                                                25
                                                                          A. So we talked a little before about what
                                                 Page 159
                                                                                                                 Page 161
       everything that was said in that presentation,
  1
                                                                  1
                                                                       causes ischemic optic neuropathy. Predisposing
  2
       because it totally jibes with my opinion. There are
                                                                  2
                                                                       factors and precipitating factors. Predisposing
  3
       medium, weak and strong cases. Mr. Martin's case
                                                                  3
                                                                       factors are all the things that were vasculopathic
  4
       happens to be a strong case. If you notice, the
                                                                  4
                                                                       that were mentioned, high blood pressure, diabetes,
  5
       Austin Bradford Hill criteria are - The exact same
                                                                  5
                                                                       cholesterol, smoking, age. Those are all
       criteria that we are using to support Mr. Martin's
  6
                                                                  6
                                                                       predisposing factors. A precipitating factor is
  7
       allegations are the same things I mentioned in the
                                                                  7
                                                                       nocturnal hypotension. Nocturnal hypotension that
  8
       presentation. But it's misleading to not show the
                                                                  8
                                                                       is made worse by using a medicine that lowers your
 9
       pro side.
                                                                  9
                                                                       blood pressure like an erectile dysfunction agent is
10
          Q. Do you recall what the pro side was?
                                                                10
                                                                       a precipitating factor. So you have to have the
          A. Yes, the pro side was the same points on
11
                                                                11
                                                                       predisposing factors, they push you to some
12
       the Austin Bradford Hill except the other guy said
                                                                12
                                                                       threshold, and then something is the straw that
13
       the opposite of what I said, so -
                                                                13
                                                                       breaks the camel's back and pushes you over the edge.
14
          Q. Why were you tasked to take the con side?
                                                                14
                                                                       In my opinion the erectile dysfunction agent in this
15
          A. It was just luck of the draw. I mean, you
                                                                15
                                                                       case is the most plausible precipitating factor in
16
       have to take the pro and the con. I took the con
                                                                16
                                                                       someone who is predisposed to the development of
17
       side, because at that time it was -- you know, the
                                                                17
                                                                       nonarteritic anterior ischemic optic neuropathy.
18
       data was equal, that there could be - It was a
                                                                18
                                                                          Q. But Pfizer points out that he had taken
19
       controversial topic. It's still a controversial
                                                                19
                                                                       it - Mr. Martin had taken it approximately
20
       topic. So I think that what they neglected to
                                                                20
                                                                       two hundred times before, so explain that -
21
      include in there was - The title of the whole
                                                                21
                                                                       explain -- explain that to me.
22
      symposium was controversies in neuroophthalmology;
                                                                22
                                                                          A. Well, it's a threshold effect. It's not
23
      not that there was a right answer and a wrong answer,
                                                                23
                                                                       really a toxicity of the medicine, which I made a lot
24
      but that there was a pro position and a con position,
                                                                24
                                                                       of - spent a lot of time in the presentation
25
      and each doctor was assigned to take one side or the
                                                                25
                                                                       discussing the difference between toxicity, which
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41 (Pages 158 to 161)

Page 162 Page 164 1 this doesn't look anything like toxicity, so it's 1 A. Yes. 2 not that the erectile dysfunction agent 2 Q. Are you aware whether or not Zocor has 3 produces toxicity --3 anything in its packaging or labeling regarding ION. 4 THE WITNESS: Is he saying something? 4 AION or NAION? 5 MR. RICHARDS: Hey, Neil? 5 A. It doesn't. 6 MS. LESKIN: Neil? 6 Q. Only Viagra has the warning regarding 7 MR. RICHARDS: Neil? 7 NAION, right? 8 A. Keep going? 8 A. I think the other erectile dysfunction 9 Q. Yes. 9 agents also have similar things in -10 A. It's not a toxicity. It's a side effect 10 Q. So it's classified? 11 with a biologically plausible mechanism. So if you 11 A. Classified, yeah. In fact, if we had shown 12 don't reach the threshold, your blood pressure isn't 12 the pro side, that was what was argued. Every single 13 low enough, you won't get the event, so it's kind of 13 point that I argued with the Bradford Hill criteria 14 an all or none effect; you either get ischemic optic 14 was argued on the other side by my esteemed opponent, 15 neuropathy or you don't. The fact that you did not 15 so - You know, when you're on the con side, you 16 get it two hundred times before is not the same as a 16 don't mention things that he just said, that would be normal rechallenge for toxicity. In a normal 17 17 redundant, plus it's not the point of the symposium, 18 rechallenge for toxicity, like I get a rash every 18 so -19 time I take this medicine; every time you take it, 19 Q. What was the point of the symposium? 20 we rechallenge you, you get the rash, that's a 20 A. To demonstrate that there are two sides to 21 legitimate rechallenge, and then for that you would 21 every issue, a pro and a con; it was a controversy 22 say, look, you were rechallenged two hundred times. 22 then, and it's still a controversy now, and that you 23 you didn't get it. 23 could use the Austin Bradford Hill criteria for the 24 In an all or none effect you don't get it 24 exact same set of patients and come to different 25 over and over again; it's either all or none. 25 conclusions. And the conclusion that I drew, and I Page 163 Page 165 1 So you can take it two hundred times and never get try to impress upon all of our residents and medical 1 2 the threshold, but then you take it the two hundred 2 students and everyone we talk to about this issue, 3 and first time, and that is the thing that pushes 3 is you must apply them on individual patients. 4 you over the edge. So the fact that there were 4 because we don't have epidemiologic data to say one two hundred other dosings is not the same as what we 5 5 way or the other, so we have to just use what we have 6 use for rechallenge for side effects like rash or 6 on individual patients to make the decision. 7 nausea, whatever. It's not the same, because it's 7 Q. I want to get into the blood flow studies 8 an all and none effect. In this case NAION is an 8 that Ms. Leskin had mentioned or the lack of blood 9 all or none threshold effect. 9 flow studies. I want to zero in on the fact that --Q. There were some questions raised about 10 10 is it true that there are no -- there are no 11 whether or not Mr. Martin may have taken the drug scientific -- there's no scientific means to study 11 12 within twenty-four hours. Your opinion is based the blood flow at the point where NAION is alleged to 12 13 upon the fact -- the assumption that it is true that 13 14 Mr. Martin took the drug within approximately 14 A. That's correct. That's why it's not really 15 twenty-four hours of developing NAION, correct? 15 legitimate. It's somewhat misleading to say there 16 A. Yes. 16 are no studies to look at the blood flow of this for 17 Q. Okay. You're familiar with Catapres --17 Viagra, because there are no studies to look at the 18 the drug Catapres? 18 blood flow in that particular area for anything. 19 A. Yes. 19 So that's misleading to say that there are no studies 20 Q. Are you aware whether or not Catapres has for this erectile dysfunction agent for ocular blood 20 21 anything in its packaging or labeling regarding AION, 21 flow for AION, because there are no good studies for 22 ION or NAION? 22 this for anything, so it's true, but it's not 23 23 A. It doesn't have that. relevant. 24 Q. Are you familiar with whether or not 24 Q. Is it your understanding that blood flow Mr. Martin was taking Zocor? 25 25 to the optic nerve head and blood flow to the other

42 (Pages 162 to 165)

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Page 166
                                                                                                                Page 168
        parts of the body are the same, or are they
   1
                                                                  1
                                                                       history numbers.
  2
                                                                  2
                                                                          Q. When you say in your paper a causal
  3
           A. It's different, so - There are clearly
                                                                  3
                                                                       relationship has not been established conclusively.
  4
        susceptibilities of the optic nerve head that are
                                                                  4
                                                                       at what point, if ever, in the scientific community
  5
        different than other parts of the body, mostly
                                                                  5
                                                                       can a causal relationship be established
  6
        because there are not redundant systems; the
                                                                  6
                                                                       conclusively?
  7
        perfusion is kind of far from the heart, it's the
                                                                  7
                                                                          A. Well, if we had a large enough case-control
  8
        last place to go. So there are all sorts of - a
                                                                  8
                                                                       data study, you could be fairly certain within
  9
        number of hypotheses why ischemic optic neuropathy
                                                                  9
                                                                       certain statistical limits that there was or was not
 10
        occurs, and you don't get the stroke at the same time
                                                                 10
                                                                       a relationship; that is, you could say, well, there's
 11
        in your brain, so it seems to be just isolated to
                                                                 11
                                                                       a 95 percent chance we have excluded a causal
 12
       your optic nerve.
                                                                       relationship if we had this sample size of X,
                                                                12
 13
          Q. In your paper from 2005 you had mentioned
                                                                13
                                                                       followed this many patients for Y, and here's the
 14
       some of Pfizer's clinical studies; in fact, there
                                                                14
                                                                       data we got. That's the best you're going to have.
 15
       were more than thirteen thousand patients, and there
                                                                15
                                                                       But for 100 percent, you're never going to have that.
 16
       were no reported cases of NAION in these patients.
                                                                16
                                                                          Q. Do you know under what circumstances Pfizer
       Do you know whether or not thirteen thousand patients
 17
                                                                17
                                                                       has asked the University of Iowa to contribute in any
 18
       is thirteen thousand patients measured in terms of
                                                                18
                                                                       prospective case-control study?
 19
       patient years? Do you understand what I'm asking?
                                                                19
                                                                          A. Well, they recruited all the major study
 20
          A. Yes.
                                                                20
                                                                       centers. The University of Iowa obviously would be
 21
          Q. Do you know the difference between patient
                                                                21
                                                                       one that would want to be included in that. We went
 22
       years versus individual doses?
                                                                22
                                                                       to the preliminary discussions. We saw the protocol.
 23
          A. Yeah. I don't know which number that
                                                                23
                                                                       So I think almost all the major centers have seen the
 24
       number refers to in terms of patient years or actual
                                                                24
                                                                       protocol; it's just a matter of participating, yes or
 25
       patients and how long they were followed for, so -
                                                                25
                                                                       no, and this is still - the controversial debate is
                                                 Page 167
                                                                                                                Page 169
  1
       if you follow for too short a time, you won't -
                                                                 1
                                                                       still going on.
  2
       thirteen thousand would be a small number; it's not
                                                                 2
                                                                         Q. Where was the initial meeting held?
  3
       sufficient time to develop ischemic optic neuropathy
                                                                         A. I can't remember. I want to say
                                                                 3
  4
       given the incidence numbers that we know about.
                                                                 4
                                                                       California, but I can't remember right now.
  5
          Q. Is it fair to - What do you consider to be
                                                                 5
                                                                         Q. Did you go out there on your own dime?
  6
       an appropriate dose response time period? If someone
                                                                 6
                                                                       Did you go to California on your own dime, or did the
  7
       took it once in a month, is it appropriate to
                                                                 7
                                                                       pharmaceutical company sponsor your trip?
       calculate them as having -- Strike that. I don't
  8
                                                                 8
                                                                         A. No, I think there was some - It was part
  9
       want to confuse the issue. You mentioned in your
                                                                 9
                                                                       of another meeting, and so the refreshments,
10
       paper the Johnson and Arnold study and another study
                                                                10
                                                                       et cetera, were provided, and then this presentation
11
       measuring the estimated incidence rate for folks
                                                                11
                                                                       unfolded at our other meeting, so it was simultaneous
12
       with NAION per one hundred thousand. That's the
                                                                12
                                                                       to another meeting. People came on their own dime
       Johnson and Arnold. Are you aware of any other -
13
                                                                13
                                                                       anyway, but it was informational.
14
       What is your understanding of the incidence rate in
                                                                14
                                                                         Q. Were there any handouts presented by Pfizer
15
       the general population between -- for NAION? Is it
                                                                15
                                                                      with respect to the study?
16
       just Johnson and Arnold, or is it --
                                                                16
                                                                         A. Yeah, there were handouts.
17
          A. The Mayo Clinic is also another one that's
                                                                17
                                                                         Q. Do you have those? Do you still have
18
       frequently quoted, so it's somewhere in that range.
                                                                18
                                                                      those?
19
         Q. And it's your understanding it's still in
                                                                19
                                                                         A. No, and I think we are asked to sign a
20
       the range of 2.3, according to Johnson and Arnold,
                                                                20
                                                                      confidentiality agreement on the details.
21
       versus the 10.3 at Mayo Clinic?
                                                                21
                                                                            MR. RICHARDS: I think that's all I have.
          A. Yeah, it's somewhere in that range.
22
                                                               22
                                                                            JUDGE BORG: Ms. Leskin, anything?
23
       It's low. So that's why it's going to take thousands
                                                               23
                                                                            MS. LESKIN: Yeah.
24
       and thousands of patients to figure out if this agent
                                                               24
                                                                            JUDGE BORG: Oh, time, 4:58. Ms. Leskin,
25
       is related or not, because look at the low natural
                                                               25
                                                                      anything?
```

43 (Pages 166 to 169)

1	Page 170		Page 172
1	MS. LESKIN: Yes, just a few minutes'	1	A. Yes.
2	worth, Judge.	2	Q the one with you and Dr. Sadun?
3	REDIRECT EXAMINATION	3	A. Yes.
4	BY MS. LESKIN:	4	Q. And you wrote, Sadun, pro, and Lee, con,
5	Q. I want to make sure I understood you	5	debated the question of whether or not erectile
6	correctly. Did I hear you correctly; did you apply	6	dysfunction agents, e.g., Viagra, Pfizer, New York,
7 .	a different standard when assessing legal causation	7	USA, can cause nonarteritic anterior ischemic optic
8	versus scientific causation?	8	neuropathy. Although there is a biologically
9	A. No. There's a difference in the standard	9	plausible mechanism, i.e., hypotension, and there
10	that is accepted in the court of law. In this case	10	have been several cases reported in the literature,
11	my opinion was more likely than not. That would be	11	a cause and effect relationship remains unproven.
12	a very difficult thing to use for life or death	12	Did I read that correctly?
13	decisions in the clinic, so —	13	A. Yes.
14	Q. Okay.	14	Q. And that's a valid conclusion based on what
15	A. That's the difference in the standard,	15	was presented, correct?
16	unless I'm not reading your — the legal standard.	16	A. Yes.
17	I was asked the specific question is it more likely	17	Q. And you stand by that today, correct?
18	than not in this particular patient on the causality	18	A. Yes, only a prospective observational
19	question. Yeah, it's more likely than not. That was	19	case-control study with sufficient power and sample
20	the question that was posed to me. But it's	20	size can answer this question on a population basis.
21	different in the clinic.	21	Q. And because it has not been proven, that's
22	Q. You use a different criteria in science,	22	why Pfizer and Bayer, together with the FDA, are
23	right?	23	doing these studies that are going forward, correct?
24	A. Yeah, you can be much more rigorous, and	24	A. That's the whole point. If we could rely
25	that's why, as I mentioned in the articles, causality	25	upon everything that's been published before, why
1	· · · · · · · · · · · · · · · · · · ·		
	Page 171		Page 173
1	Page 171 has not been established for this agent.	1	_
1 2	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which	1 2	Page 173 would you have to do another study Q. Right.
1	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of	1	would you have to do another study Q. Right.
2	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium.	2	would you have to do another study Q. Right. A because it was either proven that it was
2 3	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of	2 3	would you have to do another study Q. Right.
2 3 4 5 6	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have	2 3 4	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have
2 3 4 5 6 7	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order.	2 3 4 5	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's all — people like me giving their opinion, only a
2 3 4 5 6 7 8	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order. Q. That's okay. We'll put it back in order.	2 3 4 5 6	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's
2 3 4 5 6 7 8	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order. Q. That's okay. We'll put it back in order. A. Yes.	2 3 4 5 6 7 8	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's all — people like me giving their opinion, only a prospective large sample size case-control study can answer this question.
2 3 4 5 6 7 8 9	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order. Q. That's okay. We'll put it back in order. A. Yes. Q. Now, you told me it was a little misleading	2 3 4 5 6 7 8 9	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's all — people like me giving their opinion, only a prospective large sample size case-control study can answer this question. Q. And that hasn't been done yet?
2 3 4 5 6 7 8 9 10	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order. Q. That's okay. We'll put it back in order. A. Yes. Q. Now, you told me it was a little misleading not to look at the pro, because you only gave the	2 3 4 5 6 7 8 9 10	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's all — people like me giving their opinion, only a prospective large sample size case-control study can answer this question. Q. And that hasn't been done yet? A. It has not been done yet.
2 3 4 5 6 7 8 9 10 11	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order. Q. That's okay. We'll put it back in order. A. Yes. Q. Now, you told me it was a little misleading not to look at the pro, because you only gave the con side.	2 3 4 5 6 7 8 9 10 11	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's all — people like me giving their opinion, only a prospective large sample size case-control study can answer this question. Q. And that hasn't been done yet? A. It has not been done yet. Q. You told us that you have not accessed the
2 3 4 5 6 7 8 9 10 11 12	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order. Q. That's okay. We'll put it back in order. A. Yes. Q. Now, you told me it was a little misleading not to look at the pro, because you only gave the con side. A. Yes.	2 3 4 5 6 7 8 9 10 11 12	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's all — people like me giving their opinion, only a prospective large sample size case-control study can answer this question. Q. And that hasn't been done yet? A. It has not been done yet. Q. You told us that you have not accessed the FDA database since the time of the presentation,
2 3 4 5 6 7 8 9 10 11 12 13	has not been established for this agent. Q. Okay. If you can turn to Exhibit 16, which is the article you published, an expert review of ophthalmology following the Sally Letson symposium. It looks like this (indicating). A. Yes. (Witness complies.) I should have kept them in order. Q. That's okay. We'll put it back in order. A. Yes. Q. Now, you told me it was a little misleading not to look at the pro, because you only gave the con side. A. Yes. Q. This (indicating) was a summary of the	2 3 4 5 6 7 8 9 10 11 12 13	would you have to do another study — Q. Right. A. — because it was either proven that it was or was not causal, and you wouldn't have to have another study, would you? So the fact that there are these little case-control studies, and there's all — people like me giving their opinion, only a prospective large sample size case-control study can answer this question. Q. And that hasn't been done yet? A. It has not been done yet. Q. You told us that you have not accessed the FDA database since the time of the presentation, correct?
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Page 174 Page 176 1 A. Forty-three cases, sixty-five cases. 1 A. That's fair. 2 Q. Counsel asked you when you started asking 2 Q. Okay. Do you know the design of the study 3 patients specifically about their use of PDE-5 that Pfizer is conducting on the issue of PDE-5 3 inhibitors, and you said it was mid-2000s when the 4 inhibitors and NAION? 5 FDA warning - right around the time of the FDA 5 A. Yeah, I believe it's an observational 6 warning. crossover. It's a unique design, so - I'm not an 6 7 A. Yeah. 7 expert on epidemiologic studies, but -8 Q. And we marked that earlier, and that was 8 Q. Do you need to follow up patients for 9 July 2005, if you look at Exhibit 12. a significant -- for any period of time on a 9 10 A. Yeah. It's probably - The FDA warning is 10 case-control crossover study? 11 not the time I would use. It's like somewhere around 11 A. That's one of the problems with the -12 there, because that's when the buzz was starting to 12 that was mentioned as what the debate is about. 13 generate, and the people were starting to ask the 13 so you're looking backwards in time, but it's still 14 considered prospective, because you're collecting 14 15 Q. So you didn't base your decision to start 15 data that's reliable, versus going forward in time 16 discussing this issue with your patients on the FDA 16 from the start. So, yeah, this is a unique design. 17 statement, right? 17 That's what is part of the problem. Many people 18 A. No, because Dr. Pomeranz had already 18 complained that the uniqueness of the design was 19 presented it, and it already had started to filter 19 not a strict case-control prospective. But, yes -20 through the meetings that this might be a problem, 20 The answer is, yes, we don't have to do as much. 21 so then people say, hey, maybe you should start 21 Q. Have you discussed the study with any 22 asking about it, and then the lay press and then the 22 epidemiologist? 23 FDA, so that's kind of the time line as it played 23 A. No, but the epidemiologist data was 24 out. 24 presented at the meeting, and that's been the 25 Q. And as a physician, you keep up with the 25 subject of many e-mails along the NANOS chat line, Page 175 Page 177 1 current medical literature, is that fair? 1 criticizing the design and that the design might be 2 A. Yeah. So there were already cases kind of 2 designed to find no result, and that's why some of 3 trickling out before the FDA thing in '05. 3 the places are not participating. Q. And there were cases trickling out before 4 4 MS. LESKIN: I have no further questions. 5 you started discussing it with your patients? 5 MR. RICHARDS: I have a follow-up. 6 A. That's right. RECROSS EXAMINATION 6 7 Q. And there was a time that you were aware BY MR. RICHARDS: 7 8 of these case reports, but you weren't discussing it 8 Q. Just to clarify, in 2006 when you provided 9 with your patients, correct? this summary of the Sally Letson symposium, you said 9 10 A. That's correct. 10 a cause and effect relationship remains unproven. 11 Q. Because it hadn't reached the point where That's in the scientific community, right? 11 12 there was sufficient information that it was worth 12 A. That's correct. 13 talking to your patients about, is that fair to say? 13 Q. In the legal community the standard is 14 A. That is true. 14 more likely than not, so with respect to proving 15 Q. So that scale, so to speak, that tipped 15 more likely than not, it has been proven in this case 16 over to when you started talking with your patients, with Mr. Martin, right? 16 17 just so I understand the time, that occurred, in your 17 MS. LESKIN: Objection. 18 mind, based -- sometime in 2005, is that fair? 18 JUDGE BORG: Overruled. A. Maybe beforehand, because we had already 19 19 A. Yes, I believe that the answer to the 20 heard about the case reports, et cetera, so I can't 20 more likely than not question that was posed to me 21 be precise on the date, year. 21 about this particular patient, given his 22 Q. So about when, two thousand -- give or take 22 circumstances and using the Austin Bradford Hill 23 a year or two; was it more than that? 23 criteria on him, more likely than not the erectile 24 A. Yeah. 24 dysfunction agent was the precipitating factor. 25 Q. Would it have been --But can you use Mr. Martin's case to prove a causal

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Page 178 Page 180 relationship for all of the cases in the world; no, 1 1 in other patients as well, generally speaking, but 2 because that remains unproven, and that needs to be you would have to look at each individual patient's 2 3 answered with an observational prospective large 3 case to make that determination, right? 4 sample size trial. A. That's correct. Until we have prospective 4 5 Q. If Mr. Martin's case can, by itself, observational studies from an epidemiologic 5 6 establish causation in Mr. Martin, then by its nature 6 population basis, every one of these cases is going 7 you could, in turn, say that it could cause NAION in 7 to have to be looked at on an individual basis. 8 other folks; you would have to just look at their 8 JUDGE BORG: Is that it, Mr. Richards? 9 individual cases, right? MS. LESKIN: One more -- One more question. 9 10 A. And that is precisely what we describe we 10 JUDGE BORG: Okay. 11 do on every single patient that comes to us who has 11 MR. RICHARDS: Yes, but we both take up ischemic optic neuropathy who says they are on one of 12 12 on the same thing. We're both trying to maneuver 13 these agents. We go through this whole list, because now his testimony to fit our snippet in the sound 13 14 that's really what the guy is asking, right; how much 14 byte from the --15 risk am I going to have of going blind from taking 15 JUDGE BORG: I don't think --16 this? If they don't have any of the criteria, then MS. LESKIN: Objection to the 16 17 I tell them the risk is low; if they have all the 17 characterization. 18 criteria, I say the risk is high, so for that 18 JUDGE BORG: Go ahead. 19 particular patient more likely than not he should 19 FURTHER REDIRECT EXAMINATION stop, but I can't just say for everybody more likely 20 20 BY MS. LESKIN: 21 than not. 21 Q. Dr. Lee, have you done any studies 22 Q. You have to look at their individual case? 22 evaluating the likelihood of men to discuss their 23 A. You have to look at individual cases. 23 Viagra use with their physician? 24 That's why the other case that was mentioned, I 24 A. No. This is just based on my experience 25 looked at that one, too, and I said, yeah, that's not 25 and my patient population, but I can tell you from Page 179 Page 181 1 so good. 1 my experience that when they list their medicines. 2 Q. Now, Mr. Pomeranz - Dr. Pomeranz; you had 2 and it's not on there, and then you say are you 3 mentioned he has some case reports before 2005. taking anything else; no; how about an erectile 3 4 Those case reports that are circulated among the 4 dysfunction agent; okay, maybe --5 scientific community, in your experience that's not 5 Q. Okay. 6 something that individual patients, who are not 6 A. - once in a while. 7 scientists, who don't work in the field, would have 7 Q. You haven't done any studies of that? 8 any buzz about, would you? 8 A. No. 9 A. No, they wouldn't know that. 9 Q. And you didn't talk to Mr. Martin about 10 Q. They wouldn't know to ask their doctor 10 that? 11 whether or not there's a relationship between Viagra 11 A. No. 12 and NAION in 2002, because those are the only case 12 Q. And you don't know why or why not reports, and only academics would look at that issue, 13 13 Mr. Martin discussed his Viagra use with his 14 right? 14 physician, is that a fair statement? 15 A. That's correct. That's why it's not 15 A. I don't know that. 16 appropriate to say, look, if he didn't mention it, 16 MS. LESKIN: No questions -- more 17 he didn't mention it. Why would he - Why would he 17 auestions. 18 mention that? Nowadays, of course, many more 18 MR. RICHARDS: I'm done. 19 patients mention it. But even today if you don't 19 JUDGE BORG: Okay. Thanks, Dr. Lee. 20 ask men about the erectile dysfunction agents, they 20 MS. LESKIN: Thank you, Doctor. And 21 will not disclose this information voluntarily. 21 thank you for moving us up to one o'clock. Off the 22 Q. Just so I'm -- Just so it's clear, if 22 record. 23 Viagra, in your opinion, was a precipitating factor (Deposition concluded at 5:15 p.m.) 23 24 in Mr. Martin's case, then you could extrapolate from 24 there and say that it could be a precipitating factor 25

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1 2	CERTIFICATE I. Krista K. Irish. Certified Shorthand	rage	182	
8	Reporter of the State of Iowa, do hereby certify that on the 13th day of January, 2009, at Hotel Vetro, 210 South Linn Street, Iowa City, Iowa, there appeared before me the following-named person, to wit: ANDREW LEE, M.D., who was by me first duly swom to testify the truth, the whole truth, and nothing but the truth in the above-entitled cause; that I reported in shorthand the testimony of said witness, reduced the same to typewriting under my direction and supervision, and that the foregoing deposition is a true record of the testimony given by said witness and of all proceedings had on the taking of said deposition at the above time and place.			
11 12 13	I further certify that I am not related to or employed by any of the parties to this deposition, and further that I am not a relative or employee of any attorney or counsel employed by the parties hereto or financially interested in the action. IN WITNESS WHEREOF, I have set my hand this 13th day of Japuary, 2009.		•	
14 15 16 17 18 19	Ariotal Animal Reporter Certified Shorthand Reporter Registered Merit Reporter			
20 21 22 23 24 25				

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